01 - 02

MSC2010

This document is a printed form the Final Public Version of MSC2010 produced jointly by the editorial staffs of Mathematical Reviews (MR) and Zentralblatt für Mathematik (Zbl) in consultation with the mathematical community. The goals of this revision of the Mathematics Subject Classification (MSC) were set out in the announcement of it and call for comments by the Executive Editor of MR and the Chief Editor of Zbl in August 2006. This document results from the MSC revision process that has been going on since then. MSC2010 will be fully deployed from July 2010.

The editors of MR and Zbl deploying this revision therefore ask for feedback on remaining errors to help in this work, which should be given, preferably, on the Web site at http://msc2010.org or, if the internet is not available, through e-mail to feedback@msc2010.org. They are grateful for the many suggestions that were received previously which have much influenced what we have.

How to use the Mathematics Subject Classification [MSC]

The main purpose of the classification of items in the mathematical literature using the Mathematics Subject Classification scheme is to help users find the items of present or potential interest to them as readily as possible—in products derived from the Mathematical Reviews Database (MRDB), in Zentralblatt MATH (ZMATH), or anywhere else where this classification scheme is used. An item in the mathematical literature should be classified so as to attract the attention of all those possibly interested in it. The item may be something which falls squarely within one clear area of the MSC, or it may involve several areas. Ideally, the MSC codes attached to an item should represent the subjects to which the item contains a contribution. The classification should serve both those closely concerned with specific subject areas, and those familiar enough with subjects to apply their results and methods elsewhere, inside or outside of mathematics. It will be extremely useful

00–XX	GENERAL
00 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
00 - 02	Research exposition (monographs, survey articles)
00Axx	General and miscellaneous specific topics
00A05	General mathematics
00A06	Mathematics for nonmathematicians (engineering, social sciences, etc.)
00A07	Problem books
00A08	Recreational mathematics [See also 97A20]
00A09	Popularization of mathematics
00A15	Bibliographies
00A17	External book reviews
00A20	Dictionaries and other general reference works
00A22	Formularies
00A30	Philosophy of mathematics [See also 03A05]
00A35	Methodology of mathematics, didactics [See also 97Cxx, 97Dxx]
00A65	Mathematics and music
00A66	Mathematics and visual arts, visualization
00A67	Mathematics and architecture
00A69	General applied mathematics {For physics, see 00A79 and Sections 70 through 86}
00A71	Theory of mathematical modeling
00A72	General methods of simulation
00A73	Dimensional analysis
00A79	Physics (use more specific entries from Sections 70 through 86 when possible)
00A99	Miscellaneous topics
00Bxx	Conference proceedings and collections of papers
00B05	Collections of abstracts of lectures
00B10	Collections of articles of general interest
00B15	Collections of articles of miscellaneous specific content
00B20	Proceedings of conferences of general interest
00B25	Proceedings of conferences of miscellaneous specific interest
00B30	Festschriften
00B50	Volumes of selected translations
00B55	Miscellaneous volumes of translations
00B60	Collections of reprinted articles [See also 01A75]
00B99	None of the above, but in this section
01–XX	HISTORY AND BIOGRAPHY [See also the classification
	number–03 in the other sections]
01-00	General reference works (handbooks, dictionaries, bibliographies, etc.)
01 - 01	Instructional exposition (textbooks, tutorial papers, etc.)

for both users and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every item in the MRDB or ZMATH receives precisely one primary classification, which is simply the MSC code that describes its principal contribution. When an item contains several principal contributions to different areas, the primary classification should cover the most important among them. A paper or book may be assigned one or several secondary classification numbers to cover any remaining principal contributions, ancillary results, motivation or origin of the matters discussed, intended or potential field of application, or other significant aspects worthy of notice.

The principal contribution is meant to be the one including the most important part of the work actually done in the item. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, would have a primary classification in 05C (Graph Theory) with one or more secondary classifications in 68 (Computer Science); conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

There are two types of cross-references given at the end of many of the entries in the MSC. The first type is in braces: "{For A, see X}"; if this appears in section Y, it means that contributions described by A should usually be assigned the classification code X, not Y. The other type of cross-reference merely points out related classifications; it is in brackets: "[See also ...]", "[See mainly ...]", etc., and the classification codes listed in the brackets may, but need not, be included in the classification codes of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier must judge which classification is the most appropriate for the paper at hand.

Research exposition (monographs, survey articles) 01 - 06Proceedings, conferences, collections, etc. 01 - 08Computational methods 01Axx History of mathematics and mathematicians 01A05 General histories, source books 01A07 Ethnomathematics, general 01A10 Paleolithic, Neolithic 01A12 Indigenous cultures of the Americas 01A13 Other indigenous cultures (non-European) 01A15 Indigenous European cultures (pre-Greek, etc.) 01A16 Egyptian 01A17 Babylonian 01A20 Greek, Roman 01A25China 01A27 Japan 01A29 Southeast Asia 01A30 Islam (Medieval) 01A32 India 01A35 Medieval 01A40 15th and 16th centuries, Renaissance 01A4517th century 01A5018th century 01A5519th century 01A60 20th century Twenty-first century 01A61 01A65Contemporary 01A67 Future prospectives 01A70Biographies, obituaries, personalia, bibliographies 01A72Schools of mathematics 01A73 Universities 01A74 Other institutions and academies 01A75Collected or selected works; reprintings or translations of classics [See also 00B60] Sociology (and profession) of mathematics 01A80 01A85Historiography 01A90 Bibliographic studies 01A99 Miscellaneous topics MATHEMATICAL LOGIC AND FOUNDATIONS 03-XX03 - 00General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) 03 - 0103 - 02Research exposition (monographs, survey articles) 03 - 03Historical (must also be assigned at least one classification number from Section 01)

[Source Date: Monday 12 October 2009 21:56]

03D28

Other Turing degree structures

03D30

03D32

03D35

03D40

03D45

03D50

03D55

03D60

03D65

03D70

03D75

03D78

03D80

03D99

03Exx

03E02

03E04

03E05

03E10

03E15

03E17

03E20

03E25

03E30

03E35

03E40

03E45

03E47

03E50

03E55

03E57

03E60

03E65

Hierarchies

Set theory

algebra)

models

Large cardinals

Determinacy principles

Other hypotheses and axioms

Partition relations

Inductive definability

Other degrees and reducibilities

Higher-type and set recursion theory

None of the above, but in this section

Other combinatorial set theory

Ordinal and cardinal numbers

Algorithmic randomness and dimension [See also 68Q30]

Theory of numerations, effectively presented structures

Recursive equivalence types of sets and structures, isols

Word problems, etc. [See also 06B25, 08A50, 20F10, 68R15]

Abstract and axiomatic computability and recursion theory

Applications of computability and recursion theory

Ordered sets and their cofinalities; pcf theory

Descriptive set theory [See also 28A05, 54H05]

Axiomatics of classical set theory and its fragments

Other aspects of forcing and Boolean-valued models

Continuum hypothesis and Martin's axiom [See also 03E57]

Generic absoluteness and forcing axioms [See also 03E50]

Cardinal characteristics of the continuum

Axiom of choice and related propositions

Other notions of set-theoretic definability

Consistency and independence results

Computation over the reals {For constructive aspects, see 03F60}

Other classical set theory (including functions, relations, and set

Inner models, including constructibility, ordinal definability, and core

[See also 03C57; for intuitionistic and similar approaches see 03F55]

Computability and recursion theory on ordinals, admissible sets, etc.

Undecidability and degrees of sets of sentences

02 04	
03 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
03 - 06	Proceedings, conferences, collections, etc.
03Axx	Philosophical aspects of logic and foundations
03A05	Philosophical and critical {For philosophy of mathematics, see also
	00A30}
00110	,
03A10	Logic in the philosophy of science
03A99	None of the above, but in this section
03Bxx	General logic
	0
03B05	Classical propositional logic
03B10	Classical first-order logic
03B15	Higher-order logic and type theory
03B20	Subsystems of classical logic (including intuitionistic logic)
03B22	Abstract deductive systems
03B25	Decidability of theories and sets of sentences [See also 11U05, 12L05,
	20F10]
00000	
03B30	Foundations of classical theories (including reverse mathematics)
	[See also 03F35]
03B35	Mechanization of proofs and logical operations [See also 68T15]
03B40	Combinatory logic and lambda-calculus [See also 68N18]
03B42	Logics of knowledge and belief (including belief change)
03B44	Temporal logic
03B45	Modal logic (including the logic of norms) {For knowledge and belief,
00D40	
	see $03B42$; for temporal logic, see $03B44$; for provability logic, see
	also $03F45$
03B47	Substructural logics (including relevance, entailment, linear logic,
	Lambek calculus, BCK and BCI logics) {For proof-theoretic aspects
	see $03F52$ }
03B48	Probability and inductive logic [See also 60A05]
03B50	Many-valued logic
03B52	Fuzzy logic; logic of vagueness [See also 68T27, 68T37, 94D05]
03B53	Paraconsistent logics
03B55	Intermediate logics
03B60	Other nonclassical logic
03B62	Combined logics
03B65	Logic of natural languages [See also 68T50, 91F20]
03B70	Logic in computer science [See also 68–XX]
	о I I I I
03B80	Other applications of logic
03B99	None of the above, but in this section
03Cxx	Model theory
03C05	Equational classes, universal algebra [See also 08Axx, 08Bxx, 18C05]
03C07	Basic properties of first-order languages and structures
05001	
00010	
03C10	Quantifier elimination, model completeness and related topics
$\begin{array}{c} 03{\rm C10}\\ 03{\rm C13} \end{array}$	
03C13	Quantifier elimination, model completeness and related topics
03C13 03C15	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures
$03C13 \\ 03C15 \\ 03C20$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions
03C13 03C15 03C20 03C25	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing
$03C13 \\ 03C15 \\ 03C20$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions
03C13 03C15 03C20 03C25 03C30 03C35	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories
03C13 03C15 03C20 03C25 03C30 03C35 03C40	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48]
03C13 03C15 03C20 03C25 03C30 03C35 03C40	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45]
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.)
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ 03C35\\ 03C40\\ 03C45\\ 03C48\\ 03C50\\ 03C52\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ 03C35\\ 03C40\\ 03C45\\ 03C48\\ 03C50\\ 03C52\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ 03C35\\ 03C40\\ 03C45\\ 03C48\\ 03C50\\ 03C52\\ 03C55\\ 03C55\\ 03C57\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45]
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ 03C35\\ 03C40\\ 03C45\\ 03C44\\ 03C50\\ 03C52\\ 03C55\\ 03C55\\ 03C57\\ 03C60\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ 03C35\\ 03C40\\ 03C45\\ 03C48\\ 03C50\\ 03C52\\ 03C55\\ 03C55\\ 03C57\\ 03C60\\ 03C62\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx]
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ 03C35\\ 03C40\\ 03C45\\ 03C44\\ 03C50\\ 03C52\\ 03C55\\ 03C55\\ 03C57\\ 03C60\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality
$\begin{array}{c} 03C13\\ 03C15\\ 03C20\\ 03C25\\ 03C30\\ 03C35\\ 03C40\\ 03C45\\ 03C48\\ 03C50\\ 03C52\\ 03C55\\ 03C55\\ 03C57\\ 03C60\\ 03C62\\ \end{array}$	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx]
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C45 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C68	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C68 03C70	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C45 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C68 03C75	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C45 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C68 03C75	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C68 03C70	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44,
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C62 03C64 03C65 03C68 03C70 03C75 03C80	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48]
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C80	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C65 03C68 03C70 03C75 03C85 03C85 03C90	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.)
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C80	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C45 03C50 03C52 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C75 03C75 03C80 03C85 03C90 03C95	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory
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03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C75 03C75 03C75 03C85 03C90 03C95 03C98 03C99	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section
03C13 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C85 03C70 03C85 03C90 03C95 03C99 03Dxx	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section Computability and recursion theory
03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C75 03C75 03C75 03C85 03C90 03C95 03C98 03C99	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Models of arithmetic and set theory [See also 03Hx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section
03C13 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C80 03C75 03C80 03C85 03C90 03C99 03Dxx 03D03	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section Computability and recursion theory Thue and Post systems, etc.
03C13 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C85 03C70 03C85 03C90 03C95 03C99 03Dxx	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section Computability and recursion theory Thue and Post systems, etc. Automata and formal grammars in connection with logical questions
03C13 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C80 03C85 03C90 03C95 03C99 03Dxx 03D03 03D05	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Model so f arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section Computability and recursion theory Thue and Post systems, etc. Automata and formal grammars in connection with logical questions [See also 68Q45, 68Q70, 68R15]
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03C13 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C80 03C85 03C90 03C95 03C99 03Dxx 03D03 03D05	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Model so f arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section Computability and recursion theory Thue and Post systems, etc. Automata and formal grammars in connection with logical questions [See also 68Q45, 68Q70, 68R15]
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03C13 03C15 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C85 03C90 03C95 03C90 03C95 03C99 03Dxx 03D03 03D10 03D10	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section Computability and recursion theory Thue and Post systems, etc. Automata and formal grammars in connection with logical questions [See also 68Q45, 68Q70, 68R15] Turing machines and related notions [See also 68Q05] Complexity of computation (including implicit computational complexity) [See also 68Q15, 68Q17]
03C13 03C20 03C25 03C30 03C35 03C40 03C45 03C48 03C50 03C52 03C55 03C57 03C60 03C62 03C64 03C65 03C64 03C65 03C68 03C70 03C75 03C80 03C75 03C80 03C85 03C90 03C95 03C99 03Dxx 03D03 03D05	Quantifier elimination, model completeness and related topics Finite structures [See also 68Q15, 68Q19] Denumerable structures Ultraproducts and related constructions Model-theoretic forcing Other model constructions Categoricity and completeness of theories Interpolation, preservation, definability Classification theory, stability and related concepts [See also 03C48] Abstract elementary classes and related topics [See also 03C48] Abstract elementary classes and related topics [See also 03C45] Models with special properties (saturated, rigid, etc.) Properties of classes of models Set-theoretic model theory Effective and recursion-theoretic model theory [See also 03D45] Model-theoretic algebra [See also 08C10, 12Lxx, 13L05] Models of arithmetic and set theory [See also 03Hxx] Model theory of ordered structures; o-minimality Models of other mathematical theories Other classical first-order model theory Logic on admissible sets Other infinitary logic Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48] Second- and higher-order model theory Nonclassical models (Boolean-valued, sheaf, etc.) Abstract model theory Applications of model theory [See also 03C60] None of the above, but in this section Computability and recursion theory Thue and Post systems, etc. Automata and formal grammars in connection with logical questions [See also 68Q45, 68Q70, 68R15] Turing machines and related notions [See also 68Q05] Complexity of computation (including implicit computational

03E70Nonclassical and second-order set theories 03E72Fuzzy set theory Applications of set theory 03E7503E99 None of the above, but in this section 03Fxx **Proof theory and constructive mathematics** 03F03 Proof theory, general 03F05Cut-elimination and normal-form theorems 03F07 Structure of proofs 03F10 Functionals in proof theory 03F15Recursive ordinals and ordinal notations 03F20 Complexity of proofs 03F25Relative consistency and interpretations 03F30 First-order arithmetic and fragments 03F35Second- and higher-order arithmetic and fragments [See also 03B30] 03F40 Gödel numberings and issues of incompleteness 03F45Provability logics and related algebras (e.g., diagonalizable algebras) [See also 03B45, 03G25, 06E25] 03F50Metamathematics of constructive systems 03F52Linear logic and other substructural logics [See also 03B47] 03F55Intuitionistic mathematics 03F60Constructive and recursive analysis [See also 03B30, 03D45, 03D78, 26E40, 46S30, 47S30] 03F65Other constructive mathematics [See also 03D45] None of the above, but in this section 03F99Algebraic logic 03Gxx 03G05Boolean algebras [See also 06Exx] 03G10Lattices and related structures [See also 06Bxx] 03G12Quantum logic [See also 06C15, 81P10] Cylindric and polyadic algebras; relation algebras 03G1503G20Lukasiewicz and Post algebras [See also 06D25, 06D30] 03G25Other algebras related to logic [See also 03F45, 06D20, 06E25, 06F35] 03G27Abstract algebraic logic 03G30 Categorical logic, topoi [See also 18B25, 18C05, 18C10] 03G99None of the above, but in this section 03Hxx Nonstandard models [See also 03C62] 03H05Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05] 03H10Other applications of nonstandard models (economics, physics, etc.) 03H15Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05] 03H99None of the above, but in this section

[Source Date: Monday 12 October 2009 21:56]

06Exx

05–XX 05–00	COMBINATORICS {For finite fields, see 11Txx} General reference works (handbooks, dictionaries, bibliographies, etc.)
05 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
05-01 05-02	Research exposition (monographs, survey articles)
05 - 03	Historical (must also be assigned at least one classification number
05-04	from Section 01) Explicit machine computation and programs (not the theory of
05-06	computation or programming) Proceedings, conferences, collections, etc.
05Axx	Enumerative combinatorics {For enumeration in graph theory, see $05C30$ }
05A05	Permutations, words, matrices
05A10	Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
05A15	Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
05A16	Asymptotic enumeration
05A17	Partitions of integers [See also 11P81, 11P82, 11P83]
05A18	Partitions of sets
05A19	Combinatorial identities, bijective combinatorics
05A20	Combinatorial inequalities
05A30	<i>q</i> -calculus and related topics [See also 33Dxx]
$\begin{array}{c} 05\mathrm{A40} \\ 05\mathrm{A99} \end{array}$	Umbral calculus
05A99 05Bxx	None of the above, but in this section Designs and configurations {For applications of design theory, see $94C30$ }
05B05	Block designs [See also 51E05, 62K10]
05B07	Triple systems
05B10	Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
05B15	Orthogonal arrays, Latin squares, Room squares
05B20	Matrices (incidence, Hadamard, etc.)
05B25	Finite geometries [See also 51D20, 51Exx]
05B30	Other designs, configurations [See also 51E30]
05B35 05B40	Matroids, geometric lattices [See also 52B40, 90C27]
05B40 05B45	Packing and covering [See also 11H31, 52C15, 52C17] Tessellation and tiling problems [See also 52C20, 52C22]
05B45 05B50	Polyominoes
05B99	None of the above, but in this section
05Cxx	Graph theory {For applications of graphs, see 68R10, 81Q30, 81T15, 82B20, 82C20, 90C35, 92E10, 94C15}
05C05	Trees
05C07	Vertex degrees [See also 05E30]
05C10	Planar graphs; geometric and topological aspects of graph theory [See also 57M15, 57M25]
05C12	Distance in graphs
05C15	Coloring of graphs and hypergraphs
05C17 05C20	Perfect graphs
05C20 05C21	Directed graphs (digraphs), tournaments Flows in graphs
05C21 05C22	Signed and weighted graphs
05C22 05C25	Graphs and abstract algebra (groups, rings, fields, etc.) [See also 20F65]
05C30	Enumeration in graph theory
05C31	Graph polynomials
05C35	Extremal problems [See also 90C35]
05C38	Paths and cycles [See also 90B10]
05C40	Connectivity
05C42	Density (toughness, etc.)
$05\mathrm{C}45$ $05\mathrm{C}50$	Eulerian and Hamiltonian graphs Graphs and linear algebra (matrices, eigenvalues, etc.)
05C50 05C51	Graph designs and isomomorphic decomposition [See also 05B30]
05C51	Generalized Ramsey theory [See also 05D10]
05C57	Games on graphs [See also 91A43, 91A46]
05C60	Isomorphism problems (reconstruction conjecture, etc.) and homomorphisms (subgraph embedding, etc.)
05C62	Graph representations (geometric and intersection representations, etc.) For graph drawing, see also 68R10
05C63	Infinite graphs
05C65	Hypergraphs
05C69	Dominating sets, independent sets, cliques
05C70	Factorization, matching, partitioning, covering and packing
05C72	Fractional graph theory, fuzzy graph theory
05C75	Structural characterization of families of graphs
05C76 05C78	Graph operations (line graphs, products, etc.) Graph labelling (graceful graphs, bandwidth, etc.)
05C78 05C80	Random graphs [See also 60B20]
05C80 05C81	Random walks on graphs
05C82	Small world graphs, complex networks [See also 90Bxx, 91D30]

05C83	Graph minors
05C85	Graph algorithms [See also 68R10, 68W05]
05C90	Applications [See also 68R10, 81Q30, 81T15, 82B20, 82C20, 90C35,
	92E10, 94C15]
05C99	None of the above, but in this section
05Dxx	Extremal combinatorics
05D05	Extremal set theory
05D10	Ramsey theory [See also $05C55$]
05D15	Transversal (matching) theory
05D40	Probabilistic methods
05D99	None of the above, but in this section
05Exx	Algebraic combinatorics
05E05	Symmetric functions and generalizations
05E10	Combinatorial aspects of representation theory [See also $20C30$]
05E15	Combinatorial aspects of groups and algebras [See also 14Nxx,
	22E45, 33C80
05E18	Group actions on combinatorial structures
05E30	Association schemes, strongly regular graphs
05E40	Combinatorial aspects of commutative algebra
05E45	Combinatorial aspects of simplicial complexes
05E99	None of the above, but in this section
06-XX	ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES
	[See also 18B35]
06-00	General reference works (handbooks, dictionaries, bibliographies, etc.)
06 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
06 - 02	Research exposition (monographs, survey articles)
06 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
06 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
06 - 06	Proceedings, conferences, collections, etc.
06Axx	Ordered sets
06A05	Total order
06A06	Partial order, general
06A07	Combinatorics of partially ordered sets
06A11	Algebraic aspects of posets
06A12	Semilattices [See also 20M10; for topological semilattices see 22A26]
06A15	Galois correspondences, closure operators
06A75	Generalizations of ordered sets
06A99	None of the above, but in this section
06Bxx	Lattices [See also 03G10]
06B05	Structure theory
06B10	Ideals, congruence relations
06B15	Representation theory
06B20	Varieties of lattices
06B23	Complete lattices, completions
06B25	Free lattices, projective lattices, word problems [See also 03D40,
	08A50, 20F10]
06B30	Topological lattices, order topologies [See also 06F30, 22A26, 54F05,
	54H12]
06B35	Continuous lattices and posets, applications [See also 06B30, 06D10,
	06F30, 18B35, 22A26, 68Q55]
06B75	Generalizations of lattices
06B99	None of the above, but in this section
06Cxx	Modular lattices, complemented lattices
06C05	Modular lattices, Desarguesian lattices
06C10	Semimodular lattices, geometric lattices
06C15	Complemented lattices, orthocomplemented lattices and posets
	[See also 03G12, 81P10]
06C20	Complemented modular lattices, continuous geometries
06C99	None of the above, but in this section
06Dxx	Distributive lattices
06D05	Structure and representation theory
06D10	Complete distributivity
06D10 06D15	Pseudocomplemented lattices
06D10 06D20	Heyting algebras [See also 03G25]
06D20 06D22	
	Frames, locales {For topological questions see 54–XX}
06D25	Post algebras [See also 03G20]
06D30	De Morgan algebras, Lukasiewicz algebras [See also 03G20]
06D35	MV-algebras
06D50	Lattices and duality
06D72	Fuzzy lattices (soft algebras) and related topics
06D75	Other generalizations of distributive lattices
06D99	None of the above, but in this section
06Exx	Boolean algebras (Boolean rings) [See also 03G05]
06E05	Structure theory
06E10	Chain conditions, complete algebras

Stone spaces (Boolean spaces) and related structures

Ring-theoretic properties [See also 16E50, 16G30]

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06E15

06E20

 $\mathbf{S3}$

06Exx

06E25	Boolean algebras with additional operations (diagonalizable algebras,
06520	etc.) [See also $03G25$, $03F45$]
$06{ m E}30$ $06{ m E}75$	Boolean functions [See also 94C10] Generalizations of Boolean algebras
06E99	None of the above, but in this section
06Fxx	Ordered structures
06F05	Ordered semigroups and monoids [See also 20Mxx]
06F07	Quantales
06F10	Noether lattices
06F15	Ordered groups [See also 20F60]
06F20	Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
06F25	Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
06F30	Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
06F35	BCK-algebras, BCI-algebras [See also 03G25]
06F99	None of the above, but in this section
08–XX	GENERAL ALGEBRAIC SYSTEMS
08-00	General reference works (handbooks, dictionaries, bibliographies, etc.)
08 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
08-02	Research exposition (monographs, survey articles)
08-03	Historical (must also be assigned at least one classification number from Section 01)
08 - 04	Explicit machine computation and programs (not the theory of computation or programming)
08 - 06	Proceedings, conferences, collections, etc.
08Axx	Algebraic structures [See also 03C05]
08A02	Relational systems, laws of composition
08A05	Structure theory
08A30	Subalgebras, congruence relations
08A35	Automorphisms, endomorphisms
08A40	Operations, polynomials, primal algebras
08A45	Equational compactness
08A50	Word problems [See also 03D40, 06B25, 20F10, 68R15]
08A55	Partial algebras
08A60	Unary algebras
08A62	Finitary algebras
08A65	Infinitary algebras
08A68	Heterogeneous algebras
08A70	Applications of universal algebra in computer science
08A72	Fuzzy algebraic structures
08A99	None of the above, but in this section
08Bxx 08B05	Varieties [See also 03C05] Equational logic, Mal'cev (Mal'tsev) conditions
08B05 08B10	Congruence modularity, congruence distributivity
08B10 08B15	Lattices of varieties
08B20	Free algebras
08B25	Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]
08B26	Subdirect products and subdirect irreducibility
08B30	Injectives, projectives
08B99	None of the above, but in this section
08Cxx	Other classes of algebras
08C05	Categories of algebras [See also 18C05]
08C10	Axiomatic model classes [See also 03Cxx, in particular 03C60]
08C15	Quasivarieties
08C20	Natural dualities for classes of algebras [See also 06E15, 18A40, 22A30]
08C99	None of the above, but in this section
11-XX	NUMBER THEORY
11 - 00	General reference works (handbooks, dictionaries, bibliographies, etc.)
11 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
11 - 02	Research exposition (monographs, survey articles)
11 - 03	Historical (must also be assigned at least one classification number from Section 01)
11 - 04	Explicit machine computation and programs (not the theory of computation or programming)
11 - 06	Proceedings, conferences, collections, etc.
11Axx	Elementary number theory {For analogues in number fields, see 11R04}
11A05	Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07	Congruences; primitive roots; residue systems
11A15	Power residues, reciprocity
11A25	Arithmetic functions; related numbers; inversion formulas
11A41	Primes

11A51	Factorization; primality
11A55	Continued fractions {For approximation results, see 11J70}
	[See also 11K50, 30B70, 40A15]
11A63	Radix representation; digital problems {For metric results, see
111100	11K16}
11167	
11A67	Other representations
11A99	None of the above, but in this section
11Bxx	Sequences and sets
11B05	Density, gaps, topology
11B13	Additive bases, including sumsets [See also 05B10]
11B25	Arithmetic progressions [See also 11N13]
11B30	Arithmetic combinatorics; higher degree uniformity
11B34	Representation functions
11B37	Recurrences {For applications to special functions, see 33–XX}
11B39	Fibonacci and Lucas numbers and polynomials and generalizations
11B50	Sequences (mod m)
11B57	Farey sequences; the sequences $1^k, 2^k, \cdots$
11B65	Binomial coefficients; factorials; q-identities [See also 05A10, 05A30]
11B68	Bernoulli and Euler numbers and polynomials
11B73	Bell and Stirling numbers
11B75	Other combinatorial number theory
11B83	Special sequences and polynomials
11B05 11B85	Automata sequences
11B99	None of the above, but in this section
11Cxx	Polynomials and matrices
11C08	Polynomials [See also 13F20]
11C20	Matrices, determinants [See also 15B36]
11C99	None of the above, but in this section
11Dxx	Diophantine equations [See also 11Gxx, 14Gxx]
11D04	Linear equations
11D07	The Frobenius problem
11D01 11D09	Quadratic and bilinear equations
11D25	Cubic and quartic equations
11D41	Higher degree equations; Fermat's equation
11D45	Counting solutions of Diophantine equations
11D57	Multiplicative and norm form equations
11D59	Thue-Mahler equations
11D61	Exponential equations
11D68	Rational numbers as sums of fractions
11D72	Equations in many variables [See also 11P55]
11D75	Diophantine inequalities [See also 11J25]
11D79	Congruences in many variables
	•
11D85	Representation problems [See also 11P55]
11D88	<i>p</i> -adic and power series fields
11D88 11D99	<i>p</i> -adic and power series fields None of the above, but in this section
11D88	<i>p</i> -adic and power series fields
11D88 11D99	<i>p</i> -adic and power series fields None of the above, but in this section
11D88 11D99	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}
11D88 11D99 11Exx 11E04	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields
11D88 11D99 11Exx 11E04 11E08	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields
11D88 11D99 11Exx 11E04 11E08 11E10	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields
11D88 11D99 11Exx 11E04 11E08 11E10 11E12	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms
11D88 11D99 11Exx 11E04 11E08 11E10 11E12	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Analytic theory (Epstein zeta functions; relations with automorphic
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57	 p-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Analytic theory (Epstein zeta functions; relations with automorphic forms and functions) Classical groups [See also 14Lxx, 20Gxx]
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70	 <i>p</i>-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Analytic theory (Epstein zeta functions; relations with automorphic forms and functions) Classical groups [See also 14Lxx, 20Gxx] K-theory of quadratic and Hermitian forms
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72	$\begin{array}{l} p\text{-adic and power series fields}\\ \text{None of the above, but in this section}\\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}\\ \text{Quadratic forms over general fields}\\ \text{Quadratic forms over local rings and fields}\\ \hline \textbf{Forms over real fields}\\ \text{Quadratic forms over global rings and fields}\\ \hline \textbf{General binary quadratic forms}\\ \hline \textbf{General ternary and quaternary quadratic forms; forms of more than two variables}\\ \hline \textbf{Sums of squares and representations by other particular quadratic forms}\\ \hline \textbf{Bilinear and Hermitian forms}\\ \hline \textbf{Class numbers of quadratic and Hermitian forms}\\ \hline \textbf{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)}\\ \hline \textbf{Classical groups [See also 14Lxx, 20Gxx]}\\ \hline \textbf{K-theory of quadratic and Hermitian forms}\\ \hline \textbf{Galois cohomology of linear algebraic groups [See also 20G10]}\\ \hline \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76	$\begin{array}{l} p \text{-adic and power series fields} \\ \text{None of the above, but in this section} \\ \hline \\ \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} \\ \text{Quadratic forms over general fields} \\ \text{Quadratic forms over local rings and fields} \\ \text{Quadratic forms over local rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{General binary quadratic forms} \\ \text{General ternary and quaternary quadratic forms; forms of more than two variables} \\ \text{Sums of squares and representations by other particular quadratic forms} \\ \text{Bilinear and Hermitian forms} \\ \text{Class numbers of quadratic and Hermitian forms} \\ \text{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)} \\ \text{Classical groups [See also 14Lxx, 20Gxx]} \\ K-theory of quadratic and Hermitian forms \\ \text{Galois cohomology of linear algebraic groups [See also 20G10]} \\ \text{Forms of degree higher than two} \\ \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72	$\begin{array}{l} p \text{-adic and power series fields} \\ \text{None of the above, but in this section} \\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} \\ \text{Quadratic forms over general fields} \\ \text{Quadratic forms over local rings and fields} \\ \hline \textbf{Guadratic forms over global rings and fields} \\ \hline \textbf{Quadratic forms over global rings and fields} \\ \hline \textbf{Quadratic forms over global rings and fields} \\ \hline \textbf{General binary quadratic forms} \\ \hline \textbf{General ternary and quaternary quadratic forms; forms of more than two variables} \\ \hline \textbf{Sums of squares and representations by other particular quadratic forms} \\ \hline \textbf{Bilinear and Hermitian forms} \\ \hline \textbf{Class numbers of quadratic and Hermitian forms} \\ \hline \textbf{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)} \\ \hline \textbf{Classical groups [See also 14Lxx, 20Gxx]} \\ \hline \textbf{K}\text{-theory of quadratic and Hermitian forms} \\ \hline \textbf{Galois cohomology of linear algebraic groups [See also 20G10]} \\ \hline \textbf{Forms of degree higher than two} \\ \hline \textbf{Algebraic theory of quadratic forms; Witt groups and rings} \\ \hline \end{tabular}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76	$\begin{array}{l} p\text{-adic and power series fields}\\ \text{None of the above, but in this section}\\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}\\ \text{Quadratic forms over general fields}\\ \text{Quadratic forms over local rings and fields}\\ \hline \text{Forms over real fields}\\ \text{Quadratic forms over global rings and fields}\\ \hline \text{General binary quadratic forms}\\ \hline \text{General ternary and quaternary quadratic forms; forms of more than two variables}\\ \hline \text{Sums of squares and representations by other particular quadratic forms}\\ \hline \text{Bilinear and Hermitian forms}\\ \hline \text{Class numbers of quadratic and Hermitian forms}\\ \hline \text{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)}\\ \hline \text{Classical groups [See also 14Lxx, 20Gxx]}\\ \hline K\text{-theory of quadratic and Hermitian forms}\\ \hline \text{Galois cohomology of linear algebraic groups [See also 20G10]}\\ \hline \text{Forms of degree higher than two}\\ \hline \text{Algebraic theory of quadratic forms; Witt groups and rings}\\ \hline \text{[See also 19G12, 19G24]}\\ \hline \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76	$\begin{array}{l} p \text{-adic and power series fields} \\ \text{None of the above, but in this section} \\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} \\ \text{Quadratic forms over general fields} \\ \text{Quadratic forms over local rings and fields} \\ \hline \textbf{Guadratic forms over global rings and fields} \\ \hline \textbf{Quadratic forms over global rings and fields} \\ \hline \textbf{Quadratic forms over global rings and fields} \\ \hline \textbf{General binary quadratic forms} \\ \hline \textbf{General ternary and quaternary quadratic forms; forms of more than two variables} \\ \hline \textbf{Sums of squares and representations by other particular quadratic forms} \\ \hline \textbf{Bilinear and Hermitian forms} \\ \hline \textbf{Class numbers of quadratic and Hermitian forms} \\ \hline \textbf{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)} \\ \hline \textbf{Classical groups [See also 14Lxx, 20Gxx]} \\ \hline \textbf{K}\text{-theory of quadratic and Hermitian forms} \\ \hline \textbf{Galois cohomology of linear algebraic groups [See also 20G10]} \\ \hline \textbf{Forms of degree higher than two} \\ \hline \textbf{Algebraic theory of quadratic forms; Witt groups and rings} \\ \hline \end{tabular}$
$\begin{array}{c} 11D88\\ 11D99\\ 11Exx\\ 11E04\\ 11E08\\ 11E10\\ 11E12\\ 11E16\\ 11E20\\ 11E25\\ 11E25\\ 11E25\\ 11E39\\ 11E41\\ 11E45\\ 11E57\\ 11E70\\ 11E72\\ 11E76\\ 11E81\\ \end{array}$	$\begin{array}{l} p\text{-adic and power series fields}\\ \text{None of the above, but in this section}\\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}\\ \text{Quadratic forms over general fields}\\ \text{Quadratic forms over local rings and fields}\\ \hline \text{Forms over real fields}\\ \text{Quadratic forms over global rings and fields}\\ \hline \text{General binary quadratic forms}\\ \hline \text{General ternary and quaternary quadratic forms; forms of more than two variables}\\ \hline \text{Sums of squares and representations by other particular quadratic forms}\\ \hline \text{Bilinear and Hermitian forms}\\ \hline \text{Class numbers of quadratic and Hermitian forms}\\ \hline \text{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)}\\ \hline \text{Classical groups [See also 14Lxx, 20Gxx]}\\ \hline K\text{-theory of quadratic and Hermitian forms}\\ \hline \text{Galois cohomology of linear algebraic groups [See also 20G10]}\\ \hline \text{Forms of degree higher than two}\\ \hline \text{Algebraic theory of quadratic forms; Witt groups and rings}\\ \hline \text{[See also 19G12, 19G24]}\\ \hline \end{array}$
$\begin{array}{c} 11D88\\ 11D99\\ 11Exx\\ 11E04\\ 11E08\\ 11E10\\ 11E12\\ 11E16\\ 11E20\\ 11E25\\ 11E25\\ 11E39\\ 11E41\\ 11E45\\ 11E57\\ 11E70\\ 11E72\\ 11E76\\ 11E81\\ 11E88\\ 11E95\\ \end{array}$	$\begin{array}{l} p\text{-adic and power series fields}\\ \text{None of the above, but in this section}\\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}\\ \text{Quadratic forms over general fields}\\ \text{Quadratic forms over local rings and fields}\\ \text{Forms over real fields}\\ \text{Quadratic forms over global rings and fields}\\ \text{General binary quadratic forms}\\ \text{General ternary and quaternary quadratic forms; forms of more than two variables}\\ \text{Sums of squares and representations by other particular quadratic forms}\\ \text{Bilinear and Hermitian forms}\\ \text{Class numbers of quadratic and Hermitian forms}\\ \text{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)}\\ \text{Classical groups [See also 14Lxx, 20Gxx]}\\ K-theory of quadratic and Hermitian forms\\ \text{Galois cohomology of linear algebraic groups [See also 20G10]}\\ \text{Forms of degree higher than two}\\ \text{Algebraic theory of quadratic forms; Witt groups and rings}\\ [See also 19G12, 19G24]\\ \text{Quadratic spaces; Clifford algebras [See also 15A63, 15A66]}\\ p\text{-adic theory} \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76 11E81 11E88 11E95 11E99	$p\text{-adic and power series fields}$ None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Galois cohomology of linear algebraic groups [See also 20G10] Forms of degree higher than two Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24] Quadratic spaces; Clifford algebras [See also 15A63, 15A66] p-adic theory None of the above, but in this section
$\begin{array}{c} 11D88\\ 11D99\\ 11Exx\\ 11E04\\ 11E08\\ 11E10\\ 11E12\\ 11E16\\ 11E20\\ 11E25\\ 11E25\\ 11E39\\ 11E41\\ 11E45\\ 11E57\\ 11E70\\ 11E72\\ 11E76\\ 11E81\\ 11E88\\ 11E95\\ \end{array}$	$\begin{array}{l} p\text{-adic and power series fields} \\ \text{None of the above, but in this section} \\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} \\ \text{Quadratic forms over general fields} \\ \text{Quadratic forms over local rings and fields} \\ \text{Guadratic forms over local rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{General binary quadratic forms} \\ \text{General ternary and quaternary quadratic forms; forms of more than two variables} \\ \text{Sums of squares and representations by other particular quadratic forms} \\ \text{Bilinear and Hermitian forms} \\ \text{Class numbers of quadratic and Hermitian forms} \\ \text{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)} \\ \text{Classical groups [See also 14Lxx, 20Gxx]} \\ K-theory of quadratic and Hermitian forms \\ \text{Galois cohomology of linear algebraic groups [See also 20G10]} \\ \text{Forms of degree higher than two} \\ \text{Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]} \\ \text{Quadratic spaces; Clifford algebras [See also 15A63, 15A66]} \\ p\text{-adic theory} \\ \text{None of the above, but in this section} \\ \text{Discontinuous groups and automorphic forms [See also 11R39, 11S37, } \\ \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76 11E81 11E88 11E95 11E99	$\begin{array}{l} p\text{-adic and power series fields} \\ \text{None of the above, but in this section} \\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} \\ \text{Quadratic forms over general fields} \\ \text{Quadratic forms over local rings and fields} \\ \text{Guadratic forms over global rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{General binary quadratic forms} \\ \text{General ternary and quaternary quadratic forms; forms of more than two variables} \\ \text{Sums of squares and representations by other particular quadratic forms} \\ \text{Bilinear and Hermitian forms} \\ \text{Class numbers of quadratic and Hermitian forms} \\ \text{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)} \\ \text{Classical groups [See also 14Lxx, 20Gxx]} \\ K-theory of quadratic and Hermitian forms \\ \text{Galois cohomology of linear algebraic groups [See also 20G10]} \\ \text{Forms of degree higher than two} \\ \text{Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24] \\ \text{Quadratic spaces; Clifford algebras [See also 15A63, 15A66]} \\ p\text{-adic theory} \\ \text{None of the above, but in this section} \\ \textbf{Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with } \\ \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76 11E81 11E88 11E95 11E99 11Fxx	$\begin{array}{l} p\text{-adic and power series fields} \\ \text{None of the above, but in this section} \\ \hline \\ \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} \\ \text{Quadratic forms over general fields} \\ \text{Quadratic forms over local rings and fields} \\ \text{Guadratic forms over local rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{Quadratic forms over global rings and fields} \\ \text{General binary quadratic forms} \\ \text{General ternary and quaternary quadratic forms; forms of more than two variables} \\ \text{Sums of squares and representations by other particular quadratic forms} \\ \text{Bilinear and Hermitian forms} \\ \text{Class numbers of quadratic and Hermitian forms} \\ \text{Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)} \\ \text{Classical groups [See also 14Lxx, 20Gxx]} \\ K-theory of quadratic and Hermitian forms \\ \text{Galois cohomology of linear algebraic groups [See also 20G10]} \\ \text{Forms of degree higher than two} \\ \text{Algebraic theory of quadratic forms; Witt groups and rings } \\ \text{[See also 19G12, 19G24]} \\ \text{Quadratic spaces; Clifford algebras [See also 15A63, 15A66]} \\ p\text{-adic theory} \\ \text{None of the above, but in this section} \\ \textbf{Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45} \\ \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E41 11E45 11E57 11E70 11E72 11E76 11E81 11E88 11E95 11E99 11Fxx 11F03	 <i>p</i>-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over local rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Analytic theory (Epstein zeta functions; relations with automorphic forms and functions) Classical groups [See also 14Lxx, 20Gxx] <i>K</i>-theory of quadratic forms; Witt groups and rings Galois cohomology of linear algebraic groups [See also 20G10] Forms of degree higher than two Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24] Quadratic spaces; Clifford algebras [See also 15A63, 15A66] <i>p</i>-adic theory None of the above, but in this section Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45}
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76 11E81 11E88 11E95 11E99 11Fxx	 <i>p</i>-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over global rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Analytic theory (Epstein zeta functions; relations with automorphic forms and functions) Classical groups [See also 14Lxx, 20Gxx] <i>K</i>-theory of quadratic forms; Witt groups and rings Galois cohomology of linear algebraic groups [See also 20G10] Forms of degree higher than two Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24] Quadratic spaces; Clifford algebras [See also 15A63, 15A66] <i>p</i>-adic theory None of the above, but in this section Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45} Modular and automorphic functions
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E45 11E57 11E70 11E72 11E76 11E81 11E88 11E95 11E99 11Fxx 11F03 11F06	$\begin{array}{l} p\text{-adic and power series fields} \\ \text{None of the above, but in this section} \\ \hline \textbf{Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms on linear algebra, see 15A63} \\ \text{Quadratic forms over general fields} \\ \text{Quadratic forms over local rings and fields} \\ \hline \text{Forms over real fields} \\ \text{Quadratic forms over global rings and fields} \\ \hline \text{General binary quadratic forms} \\ \text{General binary quadratic forms} \\ \hline \text{General ternary and quaternary quadratic forms; forms of more than two variables} \\ \hline \text{Sums of squares and representations by other particular quadratic forms} \\ \hline \text{Glass numbers of quadratic and Hermitian forms} \\ \hline \text{Class numbers of quadratic and Hermitian forms} \\ \hline \text{Class numbers of quadratic and Hermitian forms} \\ \hline \text{Classical groups [See also 14Lxx, 20Gxx]} \\ K-\text{theory of quadratic and Hermitian forms} \\ \hline \text{Galois cohomology of linear algebraic groups [See also 20G10]} \\ \hline \text{Forms of degree higher than two} \\ \hline \text{Algebraic theory of quadratic forms; Witt groups and rings} \\ \hline \text{[See also 19G12, 19G24]} \\ \hline \text{Quadratic spaces; Clifford algebras [See also 15A63, 15A66]} \\ p\text{-adic theory} \\ \hline \text{None of the above, but in this section} \\ \hline \text{Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45} \\ \hline \text{Modular and automorphic functions} \\ \hline \text{Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]} \\ \end{array}$
11D88 11D99 11Exx 11E04 11E08 11E10 11E12 11E16 11E20 11E25 11E39 11E41 11E41 11E45 11E57 11E70 11E72 11E76 11E81 11E88 11E95 11E99 11Fxx 11F03	 <i>p</i>-adic and power series fields None of the above, but in this section Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63} Quadratic forms over general fields Quadratic forms over global rings and fields Forms over real fields Quadratic forms over global rings and fields General binary quadratic forms General ternary and quaternary quadratic forms; forms of more than two variables Sums of squares and representations by other particular quadratic forms Bilinear and Hermitian forms Class numbers of quadratic and Hermitian forms Analytic theory (Epstein zeta functions; relations with automorphic forms and functions) Classical groups [See also 14Lxx, 20Gxx] <i>K</i>-theory of quadratic forms; Witt groups and rings Galois cohomology of linear algebraic groups [See also 20G10] Forms of degree higher than two Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24] Quadratic spaces; Clifford algebras [See also 15A63, 15A66] <i>p</i>-adic theory None of the above, but in this section Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45} Modular and automorphic functions

- 11F20Dedekind eta function, Dedekind sums11F22Relationship to Lie algebras and finite s
 - 11F22 Relationship to Lie algebras and finite simple groups11F23 Relations with algebraic geometry and topology

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- 11F25 Hecke-Petersson operators, differential operators (one variable)
- 11F27 Theta series; Weil representation; theta correspondences
- 11F30 Fourier coefficients of automorphic forms
- 11F32 Modular correspondences, etc.
- 11F33 Congruences for modular and *p*-adic modular forms [See also 14G20, 22E50]
 11F37 Forms of half-integer weight; nonholomorphic modular forms
- 11F37 Forms of han-integer weight, hormotomorphic modular forms
 11F41 Automorphic forms on GL(2); Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
- 11F46 Siegel modular groups; Siegel and Hilbert-Siegel modular and automorphic forms
- 11F50 Jacobi forms

S5

- 11F52 Modular forms associated to Drinfel'd modules
- 11F55 Other groups and their modular and automorphic forms (several variables)
- 11F60 Hecke-Petersson operators, differential operators (several variables)
 11F66 Langlands L-functions; one variable Dirichlet series and functional equations
- 11F67 Special values of automorphic *L*-series, periods of modular forms, cohomology, modular symbols
- 11F68 Dirichlet series in several complex variables associated to automorphic forms; Weyl group multiple Dirichlet series
- 11F70 Representation-theoretic methods; automorphic representations over local and global fields
 11F72 Spectral theory; Selberg trace formula
- 11F75 Cohomology of arithmetic groups
- 11F80 Galois representations
- 11F85 p-adic theory, local fields [See also 14G20, 22E50]
- 11F99 None of the above, but in this section
- 11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
- 11G05 Elliptic curves over global fields [See also 14H52]
- 11G07 Elliptic curves over local fields [See also 14G20, 14H52]
- 11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
- 11G10 Abelian varieties of dimension > 1 [See also 14Kxx]
- 11G15 Complex multiplication and moduli of abelian varieties
- [See also 14K22] 11G16 Elliptic and modular units [See also 11R27]
- 11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
- 11G20 Curves over finite and local fields [See also 14H25]
- 11G25 Varieties over finite and local fields [See also 14G15, 14G20]
- 11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields
- [See also 14H25]
- 11G32 Dessins d'enfants, Belyĭ theory
- 11G35 Varieties over global fields [See also 14G25]
 11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer
- conjecture [See also 14G10]
- 11G42 Arithmetic mirror symmetry [See also 14J33]
- 11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
- 11G50 Heights [See also 14G40, 37P30]
- 11G55 Polylogarithms and relations with *K*-theory
- 11G99 None of the above, but in this section
- 11Hxx Geometry of numbers {For applications in coding theory, see 94B75}
- 11H06Lattices and convex bodies [See also 11P21, 52C05, 52C07]11H16Nonconvex bodies
- 11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
- 11H46 Products of linear forms
- 11H50 Minima of forms
- 11H55 Quadratic forms (reduction theory, extreme forms, etc.)
- 11H56 Automorphism groups of lattices
- 11H60 Mean value and transfer theorems
- 11H71 Relations with coding theory11H99 None of the above, but in this section

11Jxx Diophantine approximation, transcendental number theory [See also 11K60]

- 11J04 Homogeneous approximation to one number
- 11J06 Markov and Lagrange spectra and generalizations
- 11J13 Simultaneous homogeneous approximation, linear forms
- 11J17 Approximation by numbers from a fixed field
- 11J20 Inhomogeneous linear forms
- 11J25 Diophantine inequalities [See also 11D75]11J54 Small fractional parts of polynomials and generalizations
- 11J61 Approximation in non-Archimedean valuations
- 11J68 Approximation to algebraic numbers
- 11J70 Continued fractions and generalizations [See also 11A55, 11K50]
- 11J71 Distribution modulo one [See also 11K06]
- 11J72 Irrationality; linear independence over a field11J81 Transcendence (general theory)
- 11J82 Measures of irrationality and of transcendence

- 11J83 Metric theory
- 11J85 Algebraic independence; Gel'fond's method
- 11J86 Linear forms in logarithms; Baker's method
- 11J87 Schmidt Subspace Theorem and applications
- 11J89 Transcendence theory of elliptic and abelian functions
- 11J91 Transcendence theory of other special functions
- 11J93 Transcendence theory of Drinfel'd and t-modules
- 11J95 Results involving abelian varieties
- 11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)

11Pxx

- 11J99 None of the above, but in this section
- 11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms
- 11K06 General theory of distribution modulo 1 [See also 11J71]11K16 Normal numbers, radix expansions, Pisot numbers, Salem numbers,
- good lattice points, etc. [See also 11A63]
- 11K31 Special sequences
- 11K36 Well-distributed sequences and other variations
- 11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
- 11K41 Continuous, *p*-adic and abstract analogues
- 11K45 Pseudo-random numbers; Monte Carlo methods
- 11K50 Metric theory of continued fractions [See also 11A55, 11J70]
- 11K55 Metric theory of other algorithms and expansions; measure and
- Hausdorff dimension [See also 11N99, 28Dxx]
- 11K60 Diophantine approximation [See also 11Jxx]
- 11K65
 Arithmetic functions [See also 11Nxx]
- 11K70 Harmonic analysis and almost periodicity
- 11K99 None of the above, but in this section
- 11Lxx Exponential sums and character sums {For finite fields, see 11Txx}
- 11L03 Trigonometric and exponential sums, general
- 11L05 Gauss and Kloosterman sums; generalizations
- 11L07 Estimates on exponential sums
- 11L10 Jacobsthal and Brewer sums; other complete character sums
- 11L15 Weyl sums
- 11L20 Sums over primes

11M32

11M35

11M36

11M38

11M41

11M45

11M50

11M55

11M99

11Nxx

11N05

11N13

11N25

11N30

11N32

11N35

11N36

11N37

11N45

11N56

11N60

11N64

11N69

11N75

11N80

11N99

11Pxx

11P05

11P21

11P32

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- 11L26 Sums over arbitrary intervals
- 11L40 Estimates on character sums
- 11L99 None of the above, but in this section
- 11Mxx Zeta and L-functions: analytic theory
- 11M06 $\zeta(s)$ and $L(s, \chi)$

formulas

11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$

Hurwitz and Lerch zeta functions

Zeta and L-functions in characteristic p

Tauberian theorems [See also 40E05]

None of the above, but in this section

Primes in progressions [See also 11B25]

Asymptotic results on arithmetic functions

Distribution of integers in special residue classes

Rate of growth of arithmetic functions

Relations with noncommutative geometry

Relations with random matrices

Multiplicative number theory

Turán theory [See also 30Bxx]

Applications of sieve methods

Distribution of primes

polynomial values

topological structures

multiplicative functions

problems [See also 11Fxx]

Generalized primes and integers

Waring's problem and variants

Lattice points in specified regions

None of the above, but in this section

Additive number theory; partitions

arithmetic functions

Sieves

11M26 Nonreal zeros of $\zeta(s)$ and $L(s, \chi)$; Riemann and other hypotheses

Multiple Dirichlet series and zeta functions and multizeta values

Selberg zeta functions and regularized determinants; applications

to spectral theory, Dirichlet series, Eisenstein series, etc. Explicit

Other Dirichlet series and zeta functions {For local and global

Distribution of integers with specified multiplicative constraints

Asymptotic results on counting functions for algebraic and

Distribution functions associated with additive and positive

Other results on the distribution of values or the characterization of

Applications of automorphic functions and forms to multiplicative

Goldbach-type theorems; other additive questions involving primes

Primes represented by polynomials; other multiplicative structure of

methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72}

ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric

11Yxx

11P55	Applications of the Hardy-Littlewood method [See also 11D85]
11P70	Inverse problems of additive number theory, including sumsets
11P81	Elementary theory of partitions [See also 05A17]
11P82	Analytic theory of partitions
11P83	Partitions; congruences and congruential restrictions
11P84 11P99	Partition identities; identities of Rogers-Ramanujan type None of the above, but in this section
11F 99 11Rxx	Algebraic number theory: global fields {For complex multiplication,
IIIUAA	see 11G15}
11R04	Algebraic numbers; rings of algebraic integers
11R06	PV-numbers and generalizations; other special algebraic numbers;
11000	Mahler measure
11R09 11R11	Polynomials (irreducibility, etc.)
11R11 11R16	Quadratic extensions Cubic and quartic extensions
11R18	Cyclotomic extensions
11R20	Other abelian and metabelian extensions
11R21	Other number fields
11R23	Iwasawa theory
11R27	Units and factorization
11R29 11R32	Class numbers, class groups, discriminants Galois theory
11R32	Integral representations related to algebraic numbers; Galois module
	structure of rings of integers [See also 20C10]
11R34	Galois cohomology [See also 12Gxx, 19A31]
11R37	Class field theory
11R39	Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
11R42	Zeta functions and <i>L</i> -functions of number fields [See also 11M41,
	19F27]
11R44	Distribution of prime ideals [See also 11N05]
11R45	Density theorems
11R47 11P52	Other analytic theory [See also 11Nxx] Quaternion and other division algebras: arithmetic, zeta functions
$\begin{array}{c} 11\mathrm{R52} \\ 11\mathrm{R54} \end{array}$	Other algebras and orders, and their zeta and <i>L</i> -functions
111001	[See also 11S45, 16Hxx, 16Kxx]
11R56	Adèle rings and groups
11R58	Arithmetic theory of algebraic function fields [See also 14–XX]
11R60	Cyclotomic function fields (class groups, Bernoulli objects, etc.)
11R65 11R70	Class groups and Picard groups of orders K-theory of global fields [See also 19Fxx]
11R80	Totally real fields [See also 12J15]
11R99	None of the above, but in this section
11Sxx	Algebraic number theory: local and <i>p</i> -adic fields
11S05	Polynomials
$\begin{array}{c} 11S15\\ 11S20 \end{array}$	Ramification and extension theory Galois theory
11S23	Integral representations
11S25	Galois cohomology [See also 12Gxx, 16H05]
11S31	Class field theory; p -adic formal groups [See also $14L05$]
11S37	Langlands-Weil conjectures, nonabelian class field theory
11S40	[See also 11Fxx, 22E50] Zeta functions and <i>L</i> -functions [See also 11M41, 19F27]
11540 11S45	Algebras and orders, and their zeta functions [See also 11R52, 11R54,
	16Hxx, 16Kxx]
11S70	K-theory of local fields [See also $19Fxx$]
11S80	Other analytic theory (analogues of beta and gamma functions, p -
11S82	adic integration, etc.) Non-Archimedean dynamical systems [See mainly 37Pxx]
11S02 11S85	Other nonanalytic theory
11S90	Prehomogeneous vector spaces
11S99	None of the above, but in this section
11 Txx	Finite fields and commutative rings (number-theoretic aspects)
11T06 11T22	Polynomials Cyclotomy
11T23	Exponential sums
11T24	Other character sums and Gauss sums
11T30	Structure theory
11T55 11T60	Arithmetic theory of polynomial rings over finite fields
$\begin{array}{c} 11{\rm T}60\\ 11{\rm T}71 \end{array}$	Finite upper half-planes Algebraic coding theory; cryptography
$11171 \\11T99$	None of the above, but in this section
11Uxx	Connections with logic
11U05	Decidability [See also 03B25]
11U07	Ultraproducts [See also 03C20]
11U09 11U10	Model theory [See also 03Cxx] Nonstandard arithmetic [See also 03H15]
11010 11U99	None of the above, but in this section

None of the above, but in this section

11U99

11Y05	Factorization
11Y11	Primality
11Y16	Algorithms; complexity [See also $68Q25$]
11Y35	Analytic computations
11Y40	Algebraic number theory computations
11Y50	Computer solution of Diophantine equations
11Y55	Calculation of integer sequences
11Y60	Evaluation of constants
11Y65	Continued fraction calculations
11Y70	Values of arithmetic functions; tables
11Y99	None of the above, but in this section
11Zxx 11Z05	Miscellaneous applications of number theory Miscellaneous applications of number theory
11Z05 11Z99	None of the above, but in this section
12–XX	FIELD THEORY AND POLYNOMIALS
12 - 00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
12 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
12 - 02	Research exposition (monographs, survey articles)
12-03	Historical (must also be assigned at least one classification number from Section 01)
12 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
12 - 06	Proceedings, conferences, collections, etc.
12Dxx	Real and complex fields
12D05	Polynomials: factorization
12D10	Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15}
12D15	Fields related with sums of squares (formally real fields, Pythagorean
10000	fields, etc.) [See also 11Exx]
12D99	None of the above, but in this section
12Exx	General field theory
$\begin{array}{c} 12\mathrm{E}05\\ 12\mathrm{E}10 \end{array}$	Polynomials (irreducibility, etc.)
12E10 12E12	Special polynomials Equations
12E12 12E15	Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
12E10 12E20	Finite fields (field-theoretic aspects)
12E20 12E25	Hilbertian fields; Hilbert's irreducibility theorem
12E30	Field arithmetic
12E99	None of the above, but in this section
12Fxx	Field extensions
12F05	Algebraic extensions
12F10	Separable extensions, Galois theory
12F12	Inverse Galois theory
12F15	Inseparable extensions
12F20	Transcendental extensions
12F99	None of the above, but in this section
12Gxx	Homological methods (field theory)
12G05	Galois cohomology [See also 14F22, 16Hxx, 16K50]
12G10	Cohomological dimension
12G99	None of the above, but in this section
12Hxx	Differential and difference algebra
12H05	Differential algebra [See also 13Nxx]
12H10	Difference algebra [See also 39Axx]
12H20	Abstract differential equations [See also 34Mxx]
$12H25 \\ 12H99$	<i>p</i> -adic differential equations [See also 11S80, 14G20] None of the above, but in this section
121199 12Jxx	Topological fields
12J05	Normed fields
12J05 12J10	Valued fields
12J10 12J12	Formally <i>p</i> -adic fields
12J12 12J15	Ordered fields
12J17	Topological semifields
12J20	General valuation theory [See also 13A18]
12J25	Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
12J27	Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
12J99	None of the above, but in this section
12Kxx	Generalizations of fields
12K05	Near-fields [See also 16Y30]
12K10	Semifields [See also 16Y60]
101/00	

Computational number theory [See also 11–04]

- 12K99 None of the above, but in this section
- 12Lxx Connections with logic
- 12L05 Decidability [See also 03B25]
- 12L10 Ultraproducts [See also 03C20]
- 12L12 Model theory [See also 03C60]
- 12L15 Nonstandard arithmetic [See also 03H15]
 - 12L99 None of the above, but in this section

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12Yxx	Computational aspects of field theory and polynomials
12Y05	Computational aspects of field theory and polynomials
12Y99	None of the above, but in this section
13-XX	COMMUTATIVE ALGEBRA
13 - 00	General reference works (handbooks, dictionaries, bibliographies, etc.)
13 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
13 - 02	Research exposition (monographs, survey articles)
13 - 03	Historical (must also be assigned at least one classification number
19 04	from Section 01) Explicit machine computation and programs (not the theory of
13-04	computation or programming)
13 - 06	Proceedings, conferences, collections, etc.
13Axx	General commutative ring theory
13A02	Graded rings [See also 16W50]
13A05	Divisibility; factorizations [See also 13F15]
$\begin{array}{c} 13A15\\ 13A18 \end{array}$	Ideals; multiplicative ideal theory Valuations and their generalizations [See also 12J20]
13A30	Associated graded rings of ideals (Rees ring, form ring), analytic
	spread and related topics
13A35	Characteristic p methods (Frobenius endomorphism) and reduction
13A50	to characteristic p ; tight closure [See also 13B22] Actions of groups on commutative rings; invariant theory
13A30	[See also 14L24]
13A99	None of the above, but in this section
13Bxx	Ring extensions and related topics
13B02	Extension theory
$\begin{array}{c} 13B05\\ 13B10 \end{array}$	Galois theory Morphisms
13B10 13B21	Integral dependence; going up, going down
13B22	Integral closure of rings and ideals [See also 13A35]; integrally closed
	rings, related rings (Japanese, etc.)
13B25	Polynomials over commutative rings [See also 11C08, 11T06, 13F20, 12M10]
13B30	13M10] Rings of fractions and localization [See also 16S85]
13B35	Completion [See also 13J10]
13B40	Étale and flat extensions; Henselization; Artin approximation
	[See also 13J15, 14B12, 14B25]
13B99	None of the above, but in this section
13Cxx 13C05	Theory of modules and ideals Structure, classification theorems
13C10	Projective and free modules and ideals [See also 19A13]
13C11	Injective and flat modules and ideals
13C12	Torsion modules and ideals
13C13	Other special types
$\begin{array}{c} 13\mathrm{C}14\\ 13\mathrm{C}15 \end{array}$	Cohen-Macaulay modules [See also 13H10] Dimension theory, depth, related rings (catenary, etc.)
13C20	Class groups [See also 11R29]
13C40	Linkage, complete intersections and determinantal ideals
10000	[See also 14M06, 14M10, 14M12]
$\begin{array}{c} 13{\rm C60} \\ 13{\rm C99} \end{array}$	Module categories None of the above, but in this section
13099 13Dxx	Homological methods {For noncommutative rings, see 16Exx; for
	general categories, see 18Gxx}
13D02	Syzygies, resolutions, complexes
13D03	(Co)homology of commutative rings and algebras (e.g., Hochschild, André-Quillen, cyclic, dihedral, etc.)
13D05	Homological dimension
13D07	Homological functors on modules (Tor, Ext, etc.)
13D09	Derived categories
13D10	Deformations and infinitesimal methods [See also 14B10, 14B12, 14D15, 20C al
13D15	14D15, 32Gxx] Grothendieck groups, K-theory [See also 14C35, 18F30, 19Axx,
101010	19D50]
13D22	Homological conjectures (intersection theorems)
13D30	Torsion theory [See also 13C12, 18E40]
13D40 12D45	Hilbert-Samuel and Hilbert-Kunz functions; Poincaré series
$\begin{array}{c} 13\mathrm{D}45\\ 13\mathrm{D}99 \end{array}$	Local cohomology [See also 14B15] None of the above, but in this section
13Exx	Chain conditions, finiteness conditions
13E05	Noetherian rings and modules
13E10	Artinian rings and modules, finite-dimensional algebras
13E15	Rings and modules of finite generation or presentation; number of generators
13E99	None of the above, but in this section
13Fxx	Arithmetic rings and other special rings
13F05	Dedekind, Prüfer, Krull and Mori rings and their generalizations
13F07	Euclidean rings and generalizations

- Euclidean rings and generalizations 13FU7
- 13F10 Principal ideal rings

- 13F15Rings defined by factorization properties (e.g., atomic, factorial, halffactorial) [See also 13A05, 14M05] Polynomial rings and ideals; rings of integer-valued polynomials 13F20[See also 11C08, 13B25]
- 13F25Formal power series rings [See also 13J05]
- 13F30Valuation rings [See also 13A18]
- 13F35Witt vectors and related rings
- 13F40Excellent rings
- 13F45Seminormal rings
- 13F50Rings with straightening laws, Hodge algebras
- Stanley-Reisner face rings; simplicial complexes [See also 55U10] 13F55
- 13F60Cluster algebras
- 13F99None of the above, but in this section
- 13Gxx **Integral domains**
- 13G05Integral domains 13G99None of the above, but in this section
- 13Hxx Local rings and semilocal rings
- 13H05Regular local rings
- 13H10Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
- 13H15Multiplicity theory and related topics [See also 14C17]
- 13H99None of the above, but in this section
- 13Jxx Topological rings and modules [See also 16W60, 16W80]
- 13J05Power series rings [See also 13F25]
- 13J07Analytical algebras and rings [See also 32B05]
- 13J10 Complete rings, completion [See also 13B35]
- 13J15Henselian rings [See also 13B40]
- Global topological rings 13J20
- 13J25Ordered rings [See also 06F25]
- Real algebra [See also 12D15, 14Pxx] 13J30
- 13J99None of the above, but in this section
- 13Lxx Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
- 13L05Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
- 13L99None of the above, but in this section
- 13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx}
- 13M05Structure
- 13M10Polynomials
- 13M99None of the above, but in this section
- 13Nxx Differential algebra [See also 12H05, 14F10]
- 13N05Modules of differentials
- 13N10Rings of differential operators and their modules [See also 16S32, 32C38
- 13N15Derivations
- 13N99 None of the above, but in this section
- 13Pxx Computational aspects and applications [See also 14Qxx, 68W30]
- 13P05Polynomials, factorization [See also 12Y05]
- 13P10 Gröbner bases; other bases for ideals and modules (e.g., Janet and border bases)
- 13P15 Solving polynomial systems; resultants
- 13P20Computational homological algebra [See also 13Dxx]
- 13P25Applications of commutative algebra (e.g., to statistics, control theory, optimization, etc.)
- 13P99None of the above, but in this section

ALGEBRAIC GEOMETRY 14-XX

- 14 00General reference works (handbooks, dictionaries, bibliographies, etc.)
- 14 01Instructional exposition (textbooks, tutorial papers, etc.)
- 14 02Research exposition (monographs, survey articles)
- 14 03Historical (must also be assigned at least one classification number from Section 01)
- 14 04Explicit machine computation and programs (not the theory of computation or programming)
- 14 06Proceedings, conferences, collections, etc.
- 14Axx Foundations
- 14A05Relevant commutative algebra [See also 13–XX]
- 14A10Varieties and morphisms
- 14A15Schemes and morphisms
- 14A20Generalizations (algebraic spaces, stacks)
- 14A22Noncommutative algebraic geometry [See also 16S38]
- 14A25Elementary questions
- 14A99None of the above, but in this section
- 14Bxx Local theory
- Singularities [See also 14E15, 14H20, 14J17, 32Sxx, 58Kxx] 14B05
- 14B07Deformations of singularities [See also 14D15, 32S30]
- 14B10Infinitesimal methods [See also 13D10]
- Local deformation theory, Artin approximation, etc. [See also 13B40, 14B1213D10
- Local cohomology [See also 13D45, 32C36] 14B15
- 14B20Formal neighborhoods
- 14B25Local structure of morphisms: étale, flat, etc. [See also 13B40]

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14Bxx

14D00	None of the above, but in this section
14B99 14Cxx	None of the above, but in this section Cycles and subschemes
14C05	Parametrization (Chow and Hilbert schemes)
14C15	(Equivariant) Chow groups and rings; motives
14C17	Intersection theory, characteristic classes, intersection multiplicities [See also 13H15]
14C20	Divisors, linear systems, invertible sheaves
$\begin{array}{c} 14\text{C}21 \\ 14\text{C}22 \end{array}$	Pencils, nets, webs [See also 53A60] Picard groups
14C22 14C25	Algebraic cycles
14C30	Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
$\begin{array}{c} 14\mathrm{C}34\\ 14\mathrm{C}35 \end{array}$	Torelli problem [See also $32G20$] Applications of methods of algebraic K-theory [See also $19Exx$]
14C35 14C40 14C99	Riemann-Roch theorems [See also 19E20, 19L10] None of the above, but in this section
140 <i>35</i> 14 Dxx	Families, fibrations
14D05	Structure of families (Picard-Lefschetz, monodromy, etc.)
14D06	Fibrations, degenerations
14D07	Variation of Hodge structures [See also 32G20]
$\begin{array}{c} 14\mathrm{D10}\\ 14\mathrm{D15} \end{array}$	Arithmetic ground fields (finite, local, global) Formal methods; deformations [See also 13D10, 14B07, 32Gxx]
14D19 14D20	Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
14D21	Applications of vector bundles and moduli spaces in mathematical physics (twistor theory, instantons, quantum field theory)
_	[See also 32L25, 81Txx]
14D22	Fine and coarse moduli spaces
$\begin{array}{c} 14\mathrm{D23} \\ 14\mathrm{D24} \end{array}$	Stacks and moduli problems Geometric Langlands program: algebro-geometric aspects
14D24	[See also 22E57]
14D99	None of the above, but in this section
14Exx	Birational geometry
14E05	Rational and birational maps
$\begin{array}{c} 14\mathrm{E07} \\ 14\mathrm{E08} \end{array}$	Birational automorphisms, Cremona group and generalizations Rationality questions [See also 14M20]
14E08 14E15	Global theory and resolution of singularities [See also 14B05, 32S20, 32S45]
14E16	McKay correspondence
14E18	Arcs and motivic integration
14E20	Coverings [See also 14H30]
$\begin{array}{c} 14\mathrm{E}22 \\ 14\mathrm{E}25 \end{array}$	Ramification problems [See also 11S15] Embeddings
14E20 14E30	Minimal model program (Mori theory, extremal rays)
14E99	None of the above, but in this section
14Fxx	(Co)homology theory [See also 13Dxx]
14F05	Sheaves, derived categories of sheaves and related constructions
14F10	[See also 14H60, 14J60, 18F20, 32Lxx, 46M20] Differentials and other special sheaves; D-modules; Bernstein-Sato ideals and polynomials [See also 13Nxx, 32C38]
14F17	Vanishing theorems [See also 32L20]
14F18	Multiplier ideals
14F20	Étale and other Grothendieck topologies and (co)homologies
14F22 14F25	Brauer groups of schemes [See also 12G05, 16K50]
$\begin{array}{c} 14\mathrm{F}25\\ 14\mathrm{F}30 \end{array}$	Classical real and complex (co)homology <i>p</i> -adic cohomology, crystalline cohomology
14F35	Homotopy theory; fundamental groups [See also 14H30]
14F40	de Rham cohomology [See also 14C30, 32C35, 32L10]
14F42	Motivic cohomology; motivic homotopy theory [See also 19E15]
14F43	Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)
$\begin{array}{c} 14\mathrm{F}45\\ 14\mathrm{F}99 \end{array}$	Topological properties None of the above, but in this section
14F 99 14Gxx	Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]
14G05	Rational points
14G10	Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
14G15	Finite ground fields
14G17 14G20	Positive characteristic ground fields
$\begin{array}{c} 14\text{G}20\\ 14\text{G}22 \end{array}$	Local ground fields Rigid analytic geometry
14G22 14G25	Global ground fields
14G27	Other nonalgebraically closed ground fields
14G32	Universal profinite groups (relationship to moduli spaces, projective
14005	and moduli towers, Galois theory)
$\begin{array}{c} 14\mathrm{G35}\\ 14\mathrm{G40} \end{array}$	Modular and Shimura varieties [See also 11F41, 11F46, 11G18] Arithmetic varieties and schemes; Arakelov theory; heights [See also 11G50, 37P30]
14G50	Applications to coding theory and cryptography [See also 94A60, 94B27, 94B40]

14G99	None of the above, but in this section
14Hxx	Curves
14H05	Algebraic functions; function fields [See also 11R58]
14H10	Families, moduli (algebraic)
14H15 14H20	Families, moduli (analytic) [See also 30F10, 32G15] Singularities, local rings [See also 13Hxx, 14B05]
14H25 14H25	Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
14H30	Coverings, fundamental group [See also 14E20, 14F35]
14H37	Automorphisms
14H40	Jacobians, Prym varieties [See also 32G20]
14H42	Theta functions; Schottky problem [See also 14K25, 32G20]
$14H45 \\ 14H50$	Special curves and curves of low genus Plane and space curves
14H50 14H51	Special divisors (gonality, Brill-Noether theory)
14H52	Elliptic curves [See also 11G05, 11G07, 14Kxx]
14H55	Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
14H57	Dessins d'enfants theory {For arithmetic aspects, see $11G32$ }
14H60	Vector bundles on curves and their moduli [See also 14D20, 14F05]
14H70	Relationships with integrable systems
$\begin{array}{c} 14\mathrm{H81} \\ 14\mathrm{H99} \end{array}$	Relationships with physics None of the above, but in this section
141155 14Jxx	Surfaces and higher-dimensional varieties {For analytic theory, see
	32Jxx}
14J10	Families, moduli, classification: algebraic theory
14J15	Moduli, classification: analytic theory; relations with modular forms
14J17	[See also 32G13] Singularities [See also 14B05, 14E15]
14J17 14J20	Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
14J25	Special surfaces {For Hilbert modular surfaces, see 14G35}
14J26	Rational and ruled surfaces
14J27	Elliptic surfaces
14J28	K3 surfaces and Enriques surfaces
14J29 14J20	Surfaces of general type 3-folds [See also 32Q25]
$\begin{array}{c} 14J30\\ 14J32 \end{array}$	Calabi-Yau manifolds
14J33	Mirror symmetry [See also 11G42, 53D37]
14J35	4-folds
14J40	n-folds $(n > 4)$
14J45	Fano varieties
$\begin{array}{c} 14J50\\ 14J60 \end{array}$	Automorphisms of surfaces and higher-dimensional varieties Vector bundles on surfaces and higher-dimensional varieties, and
14000	their moduli [See also 14D20, 14F05, 32Lxx]
14J70	Hypersurfaces
14J80	Topology of surfaces (Donaldson polynomials, Seiberg-Witten
	invariants)
14J81	Relationships with physics
14J99 14Kxx	None of the above, but in this section Abelian varieties and schemes
14K02	Isogeny
14K05	Algebraic theory
14K10	Algebraic moduli, classification [See also 11G15]
14K12	Subvarieties
14K15	Arithmetic ground fields [See also 11Dxx, 11Fxx, 11G10, 14Gxx]
$\begin{array}{c} 14\mathrm{K20} \\ 14\mathrm{K22} \end{array}$	Analytic theory; abelian integrals and differentials Complex multiplication [See also 11G15]
14K22 14K25	Theta functions [See also 14H42]
14K30	Picard schemes, higher Jacobians [See also 14H40, 32G20]
14K99	None of the above, but in this section
14Lxx	Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie
141.05	algebras, see 17B45}
14L05 14L10	Formal groups, p -divisible groups [See also $55N22$] Group varieties
14L15	Group schemes
14L17	Affine algebraic groups, hyperalgebra constructions [See also 17B45,
	18D35]
14L24	Geometric invariant theory [See also 13A50]
14L30	Group actions on varieties or schemes (quotients) [See also 13A50, 14L24, 14M17]
14L35	Classical groups (geometric aspects) [See also 20Gxx, 51N30]
14L40	Other algebraic groups (geometric aspects) [See also 200111, 01100]
14L99	None of the above, but in this section
14Mxx	Special varieties
14M05	Varieties defined by ring conditions (factorial, Cohen-Macaulay,
14M06	seminormal) [See also 13F15, 13F45, 13H10] Linkage [See also 13C40]

- 14M07 Low codimension problems
- 14M10 Complete intersections [See also 13C40]
- 14M12 Determinantal varieties [See also 13C40]
- 14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]

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141417	Hannan and an and the second sec
14M17	Homogeneous spaces and generalizations [See also 32M10, 53C30,
1 41 100	57T15]
14M20	Rational and unirational varieties [See also 14E08]
14M22	Rationally connected varieties
14M25	Toric varieties, Newton polyhedra [See also 52B20]
14M27	Compactifications; symmetric and spherical varieties
14M30	Supervarieties [See also 32C11, 58A50]
14M99	None of the above, but in this section
14Nxx	Projective and enumerative geometry [See also 51–XX]
14N05	Projective techniques [See also 51N35]
14N10	Enumerative problems (combinatorial problems)
14N15	Classical problems, Schubert calculus
14N20	Configurations and arrangements of linear subspaces
14N25	Varieties of low degree
14N30	Adjunction problems
14N35	Gromov-Witten invariants, quantum cohomology, Gopakumar-Vafa
	invariants, Donaldson-Thomas invariants [See also 53D45]
14N99	None of the above, but in this section
14Pxx	Real algebraic and real analytic geometry
14P05	Real algebraic sets [See also 12D15, 13J30]
14P10	Semialgebraic sets and related spaces
14P15	Real analytic and semianalytic sets [See also 32B20, 32C05]
14P20	Nash functions and manifolds [See also 32C07, 58A07]
14P25	Topology of real algebraic varieties
14P 20 14P99	None of the above, but in this section
14Qxx	Computational aspects in algebraic geometry [See also 12Y05,
14005	13Pxx, 68W30]
14Q05	Curves
14Q10	Surfaces, hypersurfaces
14Q15	Higher-dimensional varieties
14Q20	Effectivity, complexity
14Q99	None of the above, but in this section
14Rxx	Affine geometry
14R05	Classification of affine varieties
14R10	Affine spaces (automorphisms, embeddings, exotic structures,
	cancellation problem)
14R15	Jacobian problem [See also 13F20]
14R20	Group actions on affine varieties [See also 13A50, 14L30]
14R25	Affine fibrations [See also 14D06]
14R99	None of the above, but in this section
14Txx	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20]
14Txx 14T05	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20]
14Txx	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20]
14Txx 14T05	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20]
14Txx 14T05 14T99	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section
14Txx 14T05 14T99 15-XX	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY
14Txx 14T05 14T99 15–XX 15–00	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.)
14Txx 14T05 14T99 15–XX 15–00 15–01	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.)
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)
14Txx 14T05 14T99 15–XX 15–00 15–01	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01)
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03 15–04	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming)
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03 15–04 15–04	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc.
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03 15–04 15–04 15–06 15Axx	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03 15–04 15–04 15–06 15Axx 15A03	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03 15–04 15–04 15–06 15Axx 15A03 15A04	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03 15–04 15–04 15–06 15Axx 15A03 15A04 15A06	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations
$\begin{array}{c} 14Txx\\ 14T05\\ 14T99\\ 15-XX\\ 15-00\\ 15-01\\ 15-02\\ 15-03\\ 15-04\\ 15-06\\ 15Axx\\ 15A03\\ 15A04\\ 15A06\\ 15A09\\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses
14Txx 14T05 14T99 15–XX 15–00 15–01 15–02 15–03 15–04 15–04 15–06 15Axx 15A03 15A04 15A06	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35]
$\begin{array}{c} 14Txx\\ 14T05\\ 14T99\\ 15-XX\\ 15-00\\ 15-01\\ 15-02\\ 15-03\\ 15-04\\ 15-06\\ 15Axx\\ 15A03\\ 15A04\\ 15A06\\ 15A09\\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ 15-01 \\ 15-02 \\ 15-03 \\ 15-04 \\ 15-04 \\ 15-06 \\ \mathbf{15Axx} \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35]
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ 15-01 \\ 15-02 \\ 15-03 \\ 15-04 \\ 15-04 \\ 15-06 \\ \mathbf{15Axx} \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ 15-01 \\ 15-02 \\ 15-03 \\ 15-04 \\ 15-04 \\ 15-06 \\ \mathbf{15Axx} \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ 15A15 \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ \mathbf{15Axx} \\ \mathbf{15A03} \\ \mathbf{15A03} \\ \mathbf{15A04} \\ \mathbf{15A06} \\ \mathbf{15A09} \\ \mathbf{15A12} \\ \mathbf{15A15} \\ \hline \\ \mathbf{15A16} \\ \mathbf{15A18} \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A04 \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ 15A15 \\ \hline \\ 15A16 \\ 15A18 \\ 15A21 \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A04 \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A12 \\ 15A15 \\ \hline \\ 15A15 \\ \hline \\ 15A16 \\ 15A18 \\ 15A21 \\ 15A22 \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56]
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ \hline \\ 15\mathbf{A}03 \\ 15\mathbf{A}04 \\ 15\mathbf{A}03 \\ 15\mathbf{A}04 \\ 15\mathbf{A}06 \\ 15\mathbf{A}09 \\ 15\mathbf{A}12 \\ 15\mathbf{A}15 \\ \hline \\ 15\mathbf{A}15 \\ \hline \\ 15\mathbf{A}15 \\ \hline \\ 15\mathbf{A}16 \\ 15\mathbf{A}18 \\ 15\mathbf{A}21 \\ 15\mathbf{A}22 \\ 15\mathbf{A}23 \\ \hline \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ 15A15 \\ \hline \\ 15A15 \\ \hline \\ 15A16 \\ 15A16 \\ 15A21 \\ 15A22 \\ 15A22 \\ 15A23 \\ 15A24 \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ 15A15 \\ \hline \\ 15A15 \\ \hline \\ 15A16 \\ 15A18 \\ 15A21 \\ 15A22 \\ 15A23 \\ 15A24 \\ 15A27 \\ \hline \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ 15A15 \\ \hline \\ 15A15 \\ \hline \\ 15A16 \\ 15A18 \\ 15A21 \\ 15A22 \\ 15A23 \\ 15A24 \\ 15A27 \\ 15A29 \\ \hline \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity Inverse problems
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A04 \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ 15A15 \\ \hline \\ 15A16 \\ 15A18 \\ 15A21 \\ 15A22 \\ 15A23 \\ 15A24 \\ 15A27 \\ 15A29 \\ 15A30 \\ \hline \end{array}$	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A03 \\ 15A04 \\ 15A06 \\ 15A09 \\ 15A12 \\ 15A16 \\ 15A16 \\ 15A18 \\ 15A21 \\ 15A22 \\ 15A23 \\ 15A24 \\ 15A27 \\ 15A29 \\ 15A30 \\ 15A30 \\ 15A33 \\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.)
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-06 \\ 15-06 \\ 15-06 \\ 15-06 \\ 15-06 \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-01 \\ 15-02 \\ 15-03 \\ 15-03 \\ 15-04 \\ 1$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ $	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-04 \\ 15-04 \\ 15-04 \\ \hline \\ 15-04 \\ 15$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ $	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15-04 \\ \hline \\ 15-04 \\ 1$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors
$\begin{array}{r} 14Txx\\ 14T05\\ 14T99\\ 15-XX\\ 15-00\\ 15-01\\ 15-02\\ 15-03\\ 15-04\\ 15-04\\ 15-06\\ 15Axx\\ 15A03\\ 15A04\\ 15A06\\ 15A09\\ 15A12\\ 15A12\\ 15A15\\ 15A16\\ 15A16\\ 15A18\\ 15A21\\ 15A22\\ 15A23\\ 15A24\\ 15A23\\ 15A24\\ 15A27\\ 15A29\\ 15A30\\ 15A33\\ 15A39\\ 15A42\\ 15A45\\ 15A54\\ \end{array}$	 Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors Miscellaneous inequalities involving matrices
$\begin{array}{r} 14Txx\\ 14T05\\ 14T99\\ 15-XX\\ 15-00\\ 15-01\\ 15-02\\ 15-03\\ 15-04\\ 15-04\\ 15-06\\ 15Axx\\ 15A03\\ 15A04\\ 15A06\\ 15A09\\ 15A12\\ 15A12\\ 15A15\\ 15A16\\ 15A16\\ 15A18\\ 15A21\\ 15A22\\ 15A23\\ 15A24\\ 15A23\\ 15A24\\ 15A27\\ 15A29\\ 15A30\\ 15A33\\ 15A39\\ 15A42\\ 15A45\\ 15A54\\ \end{array}$	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors Miscellaneous inequalities involving matrices Matrices over function rings in one or more variables Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
$\begin{array}{c} \mathbf{14Txx} \\ 14T05 \\ 14T99 \\ 15-\mathbf{XX} \\ 15-00 \\ \hline \\ 15-01 \\ 15-02 \\ 15-03 \\ \hline \\ 15-04 \\ \hline \\ 15-04 \\ \hline \\ 15-06 \\ 15\mathbf{Axx} \\ 15A03 \\ 15A04 \\ 15A03 \\ 15A04 \\ 15A00 \\ 15A12 \\ 15A12 \\ 15A15 \\ \hline \\ 15A16 \\ 15A16 \\ 15A18 \\ 15A21 \\ 15A22 \\ 15A23 \\ 15A24 \\ 15A27 \\ 15A29 \\ 15A30 \\ 15A33 \\ 15A39 \\ 15A42 \\ 15A45 \\ 15A54 \\ 15A54 \\ 15A60 \\ \end{array}$	Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] Tropical geometry [See also 12K10, 14M25, 14N10, 52B20] None of the above, but in this section LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Basic linear algebra Vector spaces, linear dependence, rank Linear transformations, semilinear transformations Linear equations Matrix inversion, generalized inverses Conditioning of matrices [See also 65F35] Determinants, permanents, other special matrix functions [See also 19B10, 19B14] Matrix exponential and similar functions of matrices Eigenvalues, singular values, and eigenvectors Canonical forms, reductions, classification Matrix pencils [See also 47A56] Factorization of matrices Matrix equations and identities Commutativity Inverse problems Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx] Matrices over special rings (quaternions, finite fields, etc.) Linear inequalities Inequalities involving eigenvalues and eigenvectors Matrices over special rings in one or more variables Norms of matrices, numerical range, applications of functional

15A72	Vector and tensor algebra, theory of invariants [See also 13A50, 14L24]
15A75	Exterior algebra, Grassmann algebras
15A78	Other algebras built from modules
15A80	Max-plus and related algebras
15A83	Matrix completion problems
15A86	Linear preserver problems
15A99	Miscellaneous topics
15Bxx	Special matrices
15B05	Toeplitz, Cauchy, and related matrices
15B10	Orthogonal matrices
15B15	Fuzzy matrices
15B33	Matrices over special rings (quaternions, finite fields, etc.)
15B34	Boolean and Hadamard matrices
15B35	Sign pattern matrices
15B36	Matrices of integers [See also 11C20]
15B48	Positive matrices and their generalizations; cones of matrices
15B51 15B52	Stochastic matrices Random matrices
$\begin{array}{c} 15\mathrm{B52} \\ 15\mathrm{B57} \end{array}$	Hermitian, skew-Hermitian, and related matrices
15B97 15B99	None of the above, but in this section
16–XX	ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative
16 - 00	case, see 13–XX } General reference works (handbooks, dictionaries, bibliographies,
10-00	etc.)
16 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
16 - 02	Research exposition (monographs, survey articles)
16 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
16 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
16-06	Proceedings, conferences, collections, etc.
16Bxx	General and miscellaneous
16B50	Category-theoretic methods and results (except as in 16D90)
16B70	[See also 18–XX] Applications of logic [See also 03Cxx]
16B70 16B99	None of the above, but in this section
16D55	Modules, bimodules and ideals
16D10	General module theory
16D20	Bimodules
16D25	Ideals
16D30	Infinite-dimensional simple rings (except as in 16 Kxx)
16D40	Free, projective, and flat modules and ideals [See also 19A13]
16D50	Injective modules, self-injective rings [See also 16L60]
16D60	Simple and semisimple modules, primitive rings and ideals
16D70	Structure and classification (except as in 16 Gxx), direct sum
14000	decomposition, cancellation
16D80	Other classes of modules and ideals [See also 16G50]
16D90	Module categories [See also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
16D99	None of the above, but in this section
16Exx	Homological methods {For commutative rings, see 13Dxx; for general
102	categories, see 18Gxx}
16E05	Syzygies, resolutions, complexes
16E10	Homological dimension
16E20	Grothendieck groups, K-theory, etc. [See also $18F30$, $19Axx$, $19D50$]
16E30	Homological functors on modules (Tor, Ext, etc.)
16E35	Derived categories
16E40	(Co)homology of rings and algebras (e.g. Hochschild, cyclic, dihedral,
10045	etc.)
16E45	Differential graded algebras and applications
$16\mathrm{E50}$ $16\mathrm{E60}$	von Neumann regular rings and generalizations Semihereditary and hereditary rings, free ideal rings, Sylvester rings,
101200	etc.
16E65	Homological conditions on rings (generalizations of regular,
	Gorenstein, Cohen-Macaulay rings, etc.)
16E99	None of the above, but in this section
16Gxx	Representation theory of rings and algebras
16G10	Representations of Artinian rings

- 16G20 Representations of quivers and partially ordered sets
- 16G30 Representations of orders, lattices, algebras over commutative rings [See also 16Hxx]
- 16G50 Cohen-Macaulay modules
- 16G60 Representation type (finite, tame, wild, etc.)
- 16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
- 16G99 None of the above, but in this section

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S9

15A69

Multilinear algebra, tensor products

16T99

None of the above, but in this section

Conditions on elements

16Hxx	Algebras and orders {For arithmetic aspects, see $11R52$, $11R54$, $11S45$; for representation theory, see $16G30$ }	16Uxx 16U10
16H05	Separable algebras (e.g., quaternion algebras, Azumaya algebras, etc.)	16U20
16H10	Orders in separable algebras	16U30
16H15	Commutative orders	16U60
16H20	Lattices over orders	16U70
16H99	None of the above, but in this section	16U80
16Kxx	Division rings and semisimple Artin rings [See also 12E15, 15A30]	16U99
16K20	Finite-dimensional {For crossed products, see 16S35}	16Wxx
16K40	Infinite-dimensional and general	16W10
16K40 16K50	e de la companya de la company	
	Brauer groups [See also 12G05, 14F22]	16W20
16K99	None of the above, but in this section	16W22
16Lxx	Local rings and generalizations	16W25
16L30	Noncommutative local and semilocal rings, perfect rings	16W50
16L60	Quasi-Frobenius rings [See also 16D50]	16W55
16L99	None of the above, but in this section	
16Nxx	Radicals and radical properties of rings	16W60
16N20	Jacobson radical, quasimultiplication	
16N40	Nil and nilpotent radicals, sets, ideals, rings	16W70
16N60	Prime and semiprime rings [See also 16D60, 16U10]	16W80
16N80	General radicals and rings {For radicals in module categories, see	16W99
	16S90}	16Yxx
16N99	None of the above, but in this section	16Y30
16Pxx	Chain conditions, growth conditions, and other forms of finiteness	16Y60
16P10	Finite rings and finite-dimensional algebras {For semisimple, see	16Y99
	16K20; for commutative, see 11Txx, 13Mxx}	16Zxx
16P20	Artinian rings and modules	16Z05
16P40	Noetherian rings and modules	16Z99
16P50	Localization and Noetherian rings [See also 16U20]	
16P60	Chain conditions on annihilators and summands: Goldie-type	17–XX
101 00	conditions [See also 16U20], Krull dimension	17 - 00
16P70	Chain conditions on other classes of submodules, ideals, subrings,	
101 10		17 - 01
16D00	etc.; coherence	17 - 02
16P90	Growth rate, Gelfand-Kirillov dimension	17 - 03
16P99	None of the above, but in this section	
16Rxx	Rings with polynomial identity	17 - 04
16R10	T-ideals, identities, varieties of rings and algebras	
16R20	Semiprime p.i. rings, rings embeddable in matrices over commutative	17 - 06
	rings	17 - 08
16R30	Trace rings and invariant theory	17Axx
16R40	Identities other than those of matrices over commutative rings	17A01
16R50	Other kinds of identities (generalized polynomial, rational,	17A05
	involution)	17A15
16R60	Functional identities	17A20
16R99	None of the above, but in this section	17A30
16Sxx	Rings and algebras arising under various constructions	17A32
16S10	Rings determined by universal properties (free algebras, coproducts,	17A35
	adjunction of inverses, etc.)	17A36
16S15	Finite generation, finite presentability, normal forms (diamond	17A40
	lemma, term-rewriting)	17A42
16S20	Centralizing and normalizing extensions	17A45
16S30	Universal enveloping algebras of Lie algebras [See mainly 17B35]	17A50
16S32	Rings of differential operators [See also 13N10, 32C38]	17A60
16S34	Group rings [See also 20C05, 20C07], Laurent polynomial rings	17A65
16S35	Twisted and skew group rings, crossed products	17A70
16S36	Ordinary and skew polynomial rings and semigroup rings	17A75
10550	[See also 20M25]	17A80
16S37	Quadratic and Koszul algebras	17A99
		17Bxx
16S38	Rings arising from non-commutative algebraic geometry	17B01
10040	[See also 14A22]	17B05
16S40	Smash products of general Hopf actions [See also 16T05]	17B08
16S50	Endomorphism rings; matrix rings [See also 15–XX]	17B10
16S60	Rings of functions, subdirect products, sheaves of rings	17B15
16S70	Extensions of rings by ideals	17B20
16S80	Deformations of rings [See also 13D10, 14D15]	17B22
16S85	Rings of fractions and localizations [See also 13B30]	17B25
16S90	Torsion theories; radicals on module categories [See also 13D30,	17B20
	$18E40$] {For radicals of rings, see $16Nxx$ }	17B35
16S99	None of the above, but in this section	17B35 17B37
16Txx	Hopf algebras, quantum groups and related topics	11001
16T05	Hopf algebras and their applications [See also 16S40, 57T05]	17B40
16T10	Bialgebras	17B40 17B45
16T15	Coalgebras and comodules; corings	17B45 17B50
16T20	Ring-theoretic aspects of quantum groups [See also 17B37, 20G42,	17B50 17B55
	81R50]	17B55 17B56
16T25	Yang-Baxter equations	17B50 17B60
16T20 16T30	Connections with combinatorics	11000
16T00	None of the above, but in this section	17B62

SU10	Integral domains
5U20	Ore rings, multiplicative sets, Ore localization
SU30	Divisibility, noncommutative UFDs
5U60	Units, groups of units
5U70	Center, normalizer (invariant elements)
5U80	Generalizations of commutativity
5U99	None of the above, but in this section
Wxx	Rings and algebras with additional structure
6W10	Rings with involution; Lie, Jordan and other nonassociative
	structures [See also 17B60, 17C50, 46Kxx]
6W20	Automorphisms and endomorphisms
W22	Actions of groups and semigroups; invariant theory
W25	Derivations, actions of Lie algebras
W50	Graded rings and modules
W55	"Super" (or "skew") structure [See also 17A70, 17Bxx, 17C70] {For
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}
6W60	Valuations, completions, formal power series and related
	constructions [See also 13Jxx]
6W70	Filtered rings; filtrational and graded techniques
5W80	Topological and ordered rings and modules [See also 06F25, 13Jxx]
W99	None of the above, but in this section
Yxx	Generalizations {For nonassociative rings, see 17–XX}
5Y30	Near-rings [See also 12K05]
5Y60	Semirings [See also 12K10]
5Y99	None of the above, but in this section
Zxx	Computational aspects of associative rings
Z05	Computational aspects of associative rings [See also 68W30]
5Z99	None of the above, but in this section
XX	NONASSOCIATIVE RINGS AND ALGEBRAS
-00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
-01	Instructional exposition (textbooks, tutorial papers, etc.)
-02	Research exposition (monographs, survey articles)
-03	Historical (must also be assigned at least one classification number
	from Section 01)
-04	Explicit machine computation and programs (not the theory of
	computation or programming)
-06	Proceedings, conferences, collections, etc.
-08	Computational methods
Axx	General nonassociative rings
'A01	General theory
'A05	Power-associative rings
'A15	Noncommutative Jordan algebras
'A20	Flexible algebras
'A30	Algebras satisfying other identities
'A32	Leibniz algebras
A35	Division algebras
'A36	Automorphisms, derivations, other operators
'A40	Ternary compositions
'A42	Other <i>n</i> -ary compositions $(n \ge 3)$
'A45	Quadratic algebras (but not quadratic Jordan algebras)
'A50	Free algebras
'A60	Structure theory
'A65	Radical theory
'A70	Superalgebras
'A75	Composition algebras
'A80	Valued algebras
'A99	None of the above, but in this section
Bxx	Lie algebras and Lie superalgebras {For Lie groups, see $22Exx$ }
'B01	Identities, free Lie (super)algebras
B05	
B08	Structure theory
B10	Coadjoint orbits; nilpotent varieties
B15	
	Coadjoint orbits; nilpotent varieties
B20	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights)
′B20 ′B22	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory
	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras
B22	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems
'B22 'B25	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras
'B22 'B25 'B30	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras
'B22 'B25 'B30 'B35	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related
7B22 7B25 7B30 7B35 7B37	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related deformations [See also 16T20, 20G42, 81R50, 82B23]
B22 B25 B30 B35 B37 B40	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related deformations [See also 16T20, 20G42, 81R50, 82B23] Automorphisms, derivations, other operators
7B22 7B25 7B30 7B35 7B37	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related deformations [See also 16T20, 20G42, 81R50, 82B23] Automorphisms, derivations, other operators Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
B22 B25 B30 B35 B37 B37 B40 B45 B50	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related deformations [See also 16T20, 20G42, 81R50, 82B23] Automorphisms, derivations, other operators Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx] Modular Lie (super)algebras
B22 B25 B30 B35 B37 B40 B45 B50 B55	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related deformations [See also 16T20, 20G42, 81R50, 82B23] Automorphisms, derivations, other operators Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx] Modular Lie (super)algebras Homological methods in Lie (super)algebras
B22 B25 B30 B35 B37 B40 B45 B50 B55 B56	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related deformations [See also 16T20, 20G42, 81R50, 82B23] Automorphisms, derivations, other operators Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx] Modular Lie (super)algebras Homological methods in Lie (super)algebras
B22 B25 B30 B35 B37 B40 B45 B50 B55	Coadjoint orbits; nilpotent varieties Representations, algebraic theory (weights) Representations, analytic theory Simple, semisimple, reductive (super)algebras Root systems Exceptional (super)algebras Solvable, nilpotent (super)algebras Universal enveloping (super)algebras [See also 16S30] Quantum groups (quantized enveloping algebras) and related deformations [See also 16T20, 20G42, 81R50, 82B23] Automorphisms, derivations, other operators Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx] Modular Lie (super)algebras Homological methods in Lie (super)algebras

[Source Date: Monday 12 October 2009 21:56]

17B62

Lie bialgebras; Lie coalgebras

- 17B65 Infinite-dimensional Lie (super)algebras [See also 22E65]
- 17B66 Lie algebras of vector fields and related (super) algebras 17B67 Kac-Moody (super)algebras; extended affine Lie algebras
- 17B67 Kac-Moody (super)algebras; extended affine Lie algebras; toroidal Lie algebras
- 17B68 Virasoro and related algebras
- 17B69 Vertex operators; vertex operator algebras and related structures17B70 Graded Lie (super)algebras
- 17B75 Color Lie (super)algebras
- 17B80 Applications to integrable systems
- 17B81 Applications to physics
- 17B99 None of the above, but in this section
- 17Cxx Jordan algebras (algebras, triples and pairs)
- 17C05 Identities and free Jordan structures
- 17C10 Structure theory
- 17C17 Radicals
- 17C20 Simple, semisimple algebras
- 17C27 Idempotents, Peirce decompositions
- 17C30 Associated groups, automorphisms17C36 Associated manifolds
- 17C36 Associated manifolds17C37 Associated geometries
- 17C40 Exceptional Jordan structures
- 17C50 Jordan structures associated with other structures [See also 16W10]
- 17C55 Finite-dimensional structures
- 17C60 Division algebras
- 17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
- 17C70 Super structures
- 17C90 Applications to physics
- 17C99 None of the above, but in this section
- 17Dxx Other nonassociative rings and algebras
- 17D05 Alternative rings
- 17D10 Mal'cev (Mal'tsev) rings and algebras
- 17D15 Right alternative rings
- 17D20 (γ, δ) -rings, including (1, -1)-rings
- 17D25 Lie-admissible algebras17D92 Genetic algebras
- 17D92 Genetic algebras17D99 None of the above, but in this section
- 18-XX CATEGORY THEORY; HOMOLOGICAL ALGEBRA {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology}
 18-00 General reference works (handbooks, dictionaries, bibliographies,
 - etc.)
 - 18–01 Instructional exposition (textbooks, tutorial papers, etc.)
 - 18–02 Research exposition (monographs, survey articles)
 - 18–03 Historical (must also be assigned at least one classification number from Section 01)
 10.04
 - 18–04 Explicit machine computation and programs (not the theory of computation or programming)
- 18-06 Proceedings, conferences, collections, etc.
- 18Axx General theory of categories and functors
- 18A05 Definitions, generalizations
- 18A10 Graphs, diagram schemes, precategories [See especially 20L05]
- 18A15 Foundations, relations to logic and deductive systems [See also 03– XX]
- 18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms
- 18A22 Special properties of functors (faithful, full, etc.)
- 18A23 Natural morphisms, dinatural morphisms
- 18A25 Functor categories, comma categories
- 18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
- 18A32 Factorization of morphisms, substructures, quotient structures, congruences, amalgams
- 18A35 Categories admitting limits (complete categories), functors preserving limits, completions
 18A40 Adjoint functors (universal constructions, reflective subcategories,
- Kan extensions, etc.) 18A99 None of the above, but in this section
- 18Bxx Special categories
- 18B05 Category of sets, characterizations [See also 03–XX]
- 18B10 Category of relations, additive relations 18B15 Embedding theorems, universal categori
- 18B15 Embedding theorems, universal categories [See also 18E20]18B20 Categories of machines, automata, operative categories
- [See also 03D05, 68Qxx] 18B25 Topoi [See also 03G30]
- 18B30 Categories of topological spaces and continuous mappings
- [See also 54-XX]
 Preorders, orders and lattices (viewed as categories) [See also 06-XX]

- 18B40Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20L05, 20Mxx] None of the above, but in this section 18B9918Cxx **Categories and theories** Equational categories [See also 03C05, 08C05] 18C0518C10Theories (e.g. algebraic theories), structure, and semantics [See also 03G30] 18C15Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx] 18C20Algebras and Kleisli categories associated with monads Sketches and generalizations 18C3018C35Accessible and locally presentable categories Categorical semantics of formal languages [See also 68Q55, 68Q65] 18C5018C99None of the above, but in this section 18Dxx **Categories with structure** 18D05Double categories, 2-categories, bicategories and generalizations Monoidal categories (= multiplicative categories), symmetric 18D10 monoidal categories, braided categories [See also 19D23] 18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.) 18D20Enriched categories (over closed or monoidal categories) 18D25Strong functors, strong adjunctions 18D30 Fibered categories Structured objects in a category (group objects, etc.) 18D3518D50Operads [See also 55P48] 18D99None of the above, but in this section 18Exx Abelian categories 18E05Preadditive, additive categories 18E10 Exact categories, abelian categories Grothendieck categories 18E15 Embedding theorems [See also 18B15] 18E2018E25Derived functors and satellites 18E30 Derived categories, triangulated categories 18E35Localization of categories 18E40Torsion theories, radicals [See also 13D30, 16S90] 18E99None of the above, but in this section 18Fxx **Categories and geometry** Local categories and functors 18F0518F10 Grothendieck topologies [See also 14F20] 18F15Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx] 18F20Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N3018F25Algebraic K-theory and L-theory [See also 11Exx, 11R70, 11S70, 12-XX, 13D15, 14Cxx, 16E20, 19–XX, 46L80, 57R65, 57R67 18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx] 18F99 None of the above, but in this section 18Gxx Homological algebra [See also 13Dxx, 16Exx, 20Jxx, 55Nxx, 55Uxx, 57Txx 18G05Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50] 18G10Resolutions; derived functors [See also 13D02, 16E05, 18E25] 18G15Ext and Tor, generalizations, Künneth formula [See also 55U25] 18G20Homological dimension [See also 13D05, 16E10] 18G25Relative homological algebra, projective classes 18G30Simplicial sets, simplicial objects (in a category) [See also 55U10] 18G35Chain complexes [See also 18E30, 55U15] 18G40Spectral sequences, hypercohomology [See also 55Txx] 18G50Nonabelian homological algebra 18G55Homotopical algebra 18G60Other (co)homology theories [See also 19D55, 46L80, 58J20, 58J22] 18G99None of the above, but in this section 19-XX K-THEORY [See also 16E20, 18F25] 19 - 00General reference works (handbooks, dictionaries, bibliographies, etc.)
 - 19–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 19–02 Research exposition (monographs, survey articles)
- 19–03 Historical (must also be assigned at least one classification number from Section 01)
- 19–04 Explicit machine computation and programs (not the theory of computation or programming)
- 19–06 Proceedings, conferences, collections, etc.
- **19Axx** Grothendieck groups and K_0 [See also 13D15, 18F30]
- 19A13 Stability for projective modules [See also 13C10]
- 19A15 Efficient generation
- 19A22 Frobenius induction, Burnside and representation rings
 - 19A31 K_0 of group rings and orders
 - 19A49 K_0 of other rings
 - 19A99 None of the above, but in this section

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19Bxx	Whitehead groups and K_1
19B10	Stable range conditions
19B14	Stability for linear groups
19B28	K_1 of group rings and orders [See also 57Q10]
19B20 19B37	Congruence subgroup problems [See also 20H05]
19B99	None of the above, but in this section
19Cxx	Steinberg groups and K_2
19C09	Central extensions and Schur multipliers
19C20	Symbols, presentations and stability of K_2
19C30	K_2 and the Brauer group
19C40	Excision for K_2
19C99	None of the above, but in this section
19Dxx	Higher algebraic K-theory
19D06	Q- and plus-constructions
19D10	Algebraic K -theory of spaces
	Symmetric monoidal categories [See also 18D10]
19D23	
19D25	Karoubi-Villamayor-Gersten K-theory
19D35	Negative K-theory, NK and Nil
19D45	Higher symbols, Milnor K -theory
19D50	Computations of higher K -theory of rings [See also 13D15, 16E20]
19D55	K-theory and homology; cyclic homology and cohomology
	[See also 18G60]
19D99	None of the above, but in this section
19Exx	K-theory in geometry
19E08	K-theory of schemes [See also 14C35]
19E00 19E15	Algebraic cycles and motivic cohomology [See also 14C25, 14C35,
19110	
10000	14F42]
19E20	Relations with cohomology theories [See also 14Fxx]
19E99	None of the above, but in this section
19Fxx	K-theory in number theory [See also 11R70, 11S70]
19F05	Generalized class field theory [See also 11G45]
19F15	Symbols and arithmetic [See also 11R37]
19F27	Étale cohomology, higher regulators, zeta and L-functions
101 -1	[See also 11G40, 11R42, 11S40, 14F20, 14G10]
19F99	None of the above, but in this section
19Gxx	K-theory of forms [See also 11Exx]
19G05	Stability for quadratic modules
19G12	Witt groups of rings [See also 11E81]
19G24	L-theory of group rings [See also $11E81$]
19G38	Hermitian K -theory, relations with K -theory of rings
19G99	None of the above, but in this section
19Jxx	Obstructions from topology
19J05	Finiteness and other obstructions in K_0
19J10	Whitehead (and related) torsion
19J25	Surgery obstructions [See also 57R67]
19J35	Obstructions to group actions
19J99	None of the above, but in this section
19Kxx	K-theory and operator algebras [See mainly 46L80, and also 46M20]
19K14	K_0 as an ordered group, traces
19K33	EXT and K-homology [See also $55N22$]
19K35	Kasparov theory $(KK$ -theory) [See also $58J22$]
19K56	Index theory [See also 58J20, 58J22]
19K99	None of the above, but in this section
19Lxx	Topological K-theory [See also 55N15, 55R50, 55S25]
19L10	Riemann-Roch theorems, Chern characters
19L20	J-homomorphism, Adams operations [See also $55Q50$]
19L20 19L41	Connective K-theory, cobordism [See also $55N22$]
19L41 19L47	Equivariant K-theory [See also $55N91$, $55P91$, $55Q91$, $55R91$, $55S91$]
19L50	Twisted K -theory; differential K -theory
19L64	Computations, geometric applications
19L99	None of the above, but in this section
19Mxx	Miscellaneous applications of K-theory
19M05	Miscellaneous applications of K -theory
19M99	None of the above, but in this section
20-XX	GROUP THEORY AND GENERALIZATIONS
20-AA 20-00	General reference works (handbooks, dictionaries, bibliographies,
20-00	
20 01	etc.)
20-01	Instructional exposition (textbooks, tutorial papers, etc.)
20-02	Research exposition (monographs, survey articles)
20 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
20 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
20 - 06	Proceedings, conferences, collections, etc.
20Axx	Foundations
20A05	Axiomatics and elementary properties
20A10	Metamathematical considerations {For word problems, see 20F10}
20A10 20A15	
	Applications of logic to group theory
20A99	None of the above, but in this section

20Bxx	Permutation groups
20B05	General theory for finite groups
20B07	General theory for infinite groups
20B10	Characterization theorems
20B15	Primitive groups
20B20	Multiply transitive finite groups
20B22	Multiply transitive infinite groups
20B25	Finite automorphism groups of algebraic, geometric, or combinatorial
20B27	structures [See also 05Bxx, 12F10, 20G40, 20H30, 51–XX] Infinite automorphism groups [See also 12F10]
20B27 20B30	Symmetric groups
20B30 20B35	Subgroups of symmetric groups
20B35 20B40	Computational methods
20B99	None of the above, but in this section
20Cxx	Representation theory of groups [See also 19A22 (for representation
	rings and Burnside rings)]
20C05	Group rings of finite groups and their modules [See also 16S34]
20C07	Group rings of infinite groups and their modules [See also 16S34]
20C08	Hecke algebras and their representations
20C10	Integral representations of finite groups
20C11	p-adic representations of finite groups
20C12	Integral representations of infinite groups
20C15	Ordinary representations and characters
20C20	Modular representations and characters
20C25	Projective representations and multipliers
20C30	Representations of finite symmetric groups
20C32	Representations of infinite symmetric groups
20C33 20C34	Representations of finite groups of Lie type Representations of sporadic groups
20C34 $20C35$	Applications of group representations to physics
20C35 20C40	Computational methods
20C40 20C99	None of the above, but in this section
20Dxx	Abstract finite groups
20D05	Finite simple groups and their classification
20D06	Simple groups: alternating groups and groups of Lie type
	[See also 20Gxx]
20D08	Simple groups: sporadic groups
20D10	Solvable groups, theory of formations, Schunck classes, Fitting
00015	classes, π -length, ranks [See also 20F17]
20D15 20D20	Nilpotent groups, p -groups Sylow subgroups, Sylow properties, π -groups, π -structure
20D20 20D25	Special subgroups (Frattini, Fitting, etc.)
20D25 20D30	Series and lattices of subgroups
20D35	Subnormal subgroups
20D40	Products of subgroups
20D45	Automorphisms
20D60	Arithmetic and combinatorial problems
20D99	None of the above, but in this section
20Exx	Structure and classification of infinite or finite groups
20E05	Free nonabelian groups
20E06	Free products, free products with amalgamation, Higman-Neumann-
00507	Neumann extensions, and generalizations
20E07	Subgroup theorems; subgroup growth
20E08 20E10	Groups acting on trees [See also 20F65] Quasivarieties and varieties of groups
20E10 20E15	Chains and lattices of subgroups, subnormal subgroups
20210	[See also 20F22]
20E18	Limits, profinite groups
20E22	Extensions, wreath products, and other compositions [See also 20J05]
20E25	Local properties
20E26	Residual properties and generalizations; residually finite groups
20E28	Maximal subgroups
20E32	Simple groups [See also 20D05]
20E34	General structure theorems
20E36	Automorphisms of infinite groups [For automorphisms of finite
90E49	groups, see 20D45] Croups with a <i>PN</i> point buildings [See also 51E24]
20E42 20E45	Groups with a BN -pair; buildings [See also 51E24] Conjugacy classes
20E45 20E99	None of the above, but in this section
20E99 20Fxx	Special aspects of infinite or finite groups
20F05	Generators, relations, and presentations
20F06	Cancellation theory; application of van Kampen diagrams
	[See also 57M05]
20F10	Word problems, other decision problems, connections with logic and
	automata [See also $03B25$, $03D05$, $03D40$, $06B25$, $08A50$, $20M05$,
	68Q70]
20F11	Groups of finite Morley rank [See also 03C45, 03C60]

- 20F12 Commutator calculus20F14 Derived series, central series, and generalizations
 - 20F16 Solvable groups, supersolvable groups [See also 20D10]

- 20F17 Formations of groups, Fitting classes [See also 20D10]
- 20F18 Nilpotent groups [See also 20D15]
- 20F19 Generalizations of solvable and nilpotent groups
- 20F22 Other classes of groups defined by subgroup chains
- 20F24 FC-groups and their generalizations
- 20F28 Automorphism groups of groups [See also 20E36]
- 20F29 Representations of groups as automorphism groups of algebraic systems
- 20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx]
- 20F36 Braid groups; Artin groups
- 20F38 Other groups related to topology or analysis
- 20F40 Associated Lie structures
- 20F45 Engel conditions
- 20F50 Periodic groups; locally finite groups
- 20F55 Reflection and Coxeter groups [See also 22E40, 51F15]
- 20F60 Ordered groups [See mainly 06F15]
- 20F65 Geometric group theory [See also 05C25, 20E08, 57Mxx]
- 20F67 Hyperbolic groups and nonpositively curved groups
- 20F69 Asymptotic properties of groups
- 20F70 Algebraic geometry over groups; equations over groups
- 20F99 None of the above, but in this section
 20Gxx Linear algebraic groups and related topics {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
 20G05 Representation theory
 20G07 Structure theory
 20G10 Cohomology theory
- 20G15 Linear algebraic groups over arbitrary fields
- 20G20 Linear algebraic groups over the reals, the complexes, the quaternions
- 20G25 Linear algebraic groups over local fields and their integers
- 20G30 Linear algebraic groups over global fields and their integers
- 20G35 Linear algebraic groups over adèles and other rings and schemes
- 20G40 Linear algebraic groups over finite fields
- 20G41 Exceptional groups
- 20G42 Quantum groups (quantized function algebras) and their representations [See also 16T20, 17B37, 81R50]
- 20G43 Schur and *q*-Schur algebras
- 20G44 Kac-Moody groups
- 20G45 Applications to physics
- 20G99 None of the above, but in this section
- 20Hxx Other groups of matrices [See also 15A30]
- 20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
- 20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
- 20H15 Other geometric groups, including crystallographic groups [See also 51–XX, especially 51F15, and 82D25]
- 20H20 Other matrix groups over fields
- 20H25 Other matrix groups over rings
- 20H30 Other matrix groups over finite fields
- 20H99 None of the above, but in this section
- 20Jxx Connections with homological algebra and category theory
- 20J05 Homological methods in group theory
- 20J06 Cohomology of groups
- 20J15 Category of groups
- 20J99 None of the above, but in this section
- 20Kxx Abelian groups
- 20K01 Finite abelian groups [For sumsets, see 11B13 and 11P70]
- 20K10 Torsion groups, primary groups and generalized primary groups
- 20K15 Torsion-free groups, finite rank20K20 Torsion-free groups, infinite rank
- 20K21 Mixed groups
- 20K25 Direct sums, direct products, etc.
- 20K27 Subgroups
- 20K30 Automorphisms, homomorphisms, endomorphisms, etc.
- 20K35 Extensions
- 20K40 Homological and categorical methods
- 20K45 Topological methods [See also 22A05, 22B05]
- 20K99 None of the above, but in this section
- 20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
- 20L05 Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
- 20L99 None of the above, but in this section

- 20Mxx Semigroups 20M05Free semigroups, generators and relations, word problems [See also 03D40, 08A50, 20F10] 20M07Varieties and pseudovarieties of semigroups 20M10General structure theory 20M11Radical theory 20M12Ideal theory Arithmetic theory of monoids 20M1320M14Commutative semigroups 20M15Mappings of semigroups 20M17Regular semigroups 20M18Inverse semigroups 20M19Orthodox semigroups 20M20Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15] 20M25Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y6020M30Representation of semigroups; actions of semigroups on sets 20M32Algebraic monoids 20M35Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Q70, 68T50] 20M50Connections of semigroups with homological algebra and category theory 20M99None of the above, but in this section 20Nxx Other generalizations of groups 20N02 Sets with a single binary operation (groupoids) 20N05Loops, quasigroups [See also 05Bxx] 20N10 Ternary systems (heaps, semiheaps, heapoids, etc.) 20N15*n*-ary systems $(n \ge 3)$ 20N20 Hypergroups 20N25Fuzzy groups [See also 03E72] 20N99 None of the above, but in this section 20Pxx Probabilistic methods in group theory [See also 60Bxx] Probabilistic methods in group theory [See also 60Bxx] 20P0520P99None of the above, but in this section 22-XX **TOPOLOGICAL GROUPS**, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX 22 - 00General reference works (handbooks, dictionaries, bibliographies, etc.) 22 - 01Instructional exposition (textbooks, tutorial papers, etc.) 22 - 02Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number 22 - 03from Section 01) 22 - 04Explicit machine computation and programs (not the theory of computation or programming) 22 - 06Proceedings, conferences, collections, etc. 22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80 22A05 Structure of general topological groups 22A10 Analysis on general topological groups 22A15Structure of topological semigroups 22A20 Analysis on topological semigroups 22A22 Topological groupoids (including differentiable and Lie groupoids) [See also 58H05] 22A25 Representations of general topological groups and semigroups 22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F3022A30 Other topological algebraic systems and their representations 22A99 None of the above, but in this section 22Bxx Locally compact abelian groups (LCA groups) 22B05General properties and structure of LCA groups 22B10Structure of group algebras of LCA groups 22B99None of the above, but in this section 22Cxx **Compact groups** Compact groups 22C0522C99None of the above, but in this section 22Dxx Locally compact groups and their algebras 22D05General properties and structure of locally compact groups 22D10 Unitary representations of locally compact groups
- 22D12 Other representations of locally compact groups
- 22D15 Group algebras of locally compact groups
- 22D20 Representations of group algebras
- 22D25 C^* -algebras and W^* -algebras in relation to group representations [See also 46Lxx]
- 22D30 Induced representations
- 22D35 Duality theorems
- 22D40 Ergodic theory on groups [See also 28Dxx]
- 22D45 Automorphism groups of locally compact groups
- 22D99 None of the above, but in this section

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99E	I:	0C A 45
22Exx	Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90}	$\begin{array}{c} 26\mathrm{A45} \\ 26\mathrm{A46} \end{array}$
22E05	Local Lie groups [See also 34–XX, 35–XX, 58H05]	26A48
22E10	General properties and structure of complex Lie groups	26A51
	[See also 32M05]	26A99
22E15	General properties and structure of real Lie groups	26Bxx
22E20	General properties and structure of other Lie groups	26B05
22E25	Nilpotent and solvable Lie groups	26B10
22E27	Representations of nilpotent and solvable Lie groups (special orbital	
00500	integrals, non-type I representations, etc.)	26B12
$\begin{array}{c} 22\mathrm{E30} \\ 22\mathrm{E35} \end{array}$	Analysis on real and complex Lie groups [See also 33C80, 43–XX]	$\begin{array}{c} 26\mathrm{B}15\\ 26\mathrm{B}20 \end{array}$
$\frac{22\text{E}33}{22\text{E}40}$	Analysis on <i>p</i> -adic Lie groups Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]	26B20 26B25
22E40 22E41	Continuous cohomology [See also 57R32, 57Txx, 58H10]	26B20 26B30
22E43	Structure and representation of the Lorentz group	26B35
22E45	Representations of Lie and linear algebraic groups over real fields:	_0_00
	analytic methods {For the purely algebraic theory, see 20G05}	26B40
22E46	Semisimple Lie groups and their representations	26B99
22E47	Representations of Lie and real algebraic groups: algebraic methods	26Cxx
	(Verma modules, etc.) [See also 17B10]	26C05
22E50	Representations of Lie and linear algebraic groups over local fields	26C10
22E55	[See also 20G05] Representations of Lie and linear algebraic groups over global fields	$\begin{array}{c} 26\mathrm{C}15\\ 26\mathrm{C}99 \end{array}$
22E00	and adèle rings [See also $20G05$]	260.99 26Dxx
22E57	Geometric Langlands program: representation-theoretic aspects	
	[See also 14D24]	
22E60	Lie algebras of Lie groups {For the algebraic theory of Lie algebras,	26D05
	see 17Bxx}	26D07
22E65	Infinite-dimensional Lie groups and their Lie algebras: general	26D10
	properties [See also 17B65, 58B25, 58H05]	_
22E66	Analysis on and representations of infinite-dimensional Lie groups	26D15
22E67	Loop groups and related constructions, group-theoretic treatment	26D20
22E70	[See also 58D05] Applications of Lie groups to physics; explicit representations	26D99 26Exx
22E70	[See also 81R05, 81R10]	26E05
22E99	None of the above, but in this section	26E00 26E10
22Fxx	Noncompact transformation groups	26E15
22F05	General theory of group and pseudogroup actions {For topological	
	properties of spaces with an action, see $57S20$ }	26E20
22F10	Measurable group actions [See also 22D40, 28Dxx, 37Axx]	
22F30	Homogeneous spaces {For general actions on manifolds or preserving	26E25
	geometrical structures, see 57M60, 57Sxx; for discrete subgroups of	26520
22550	Lie groups, see especially 22E40}	26E30
$\begin{array}{c} 22\mathrm{F50} \\ 22\mathrm{F99} \end{array}$	Groups as automorphisms of other structures None of the above, but in this section	$\begin{array}{c} 26\mathrm{E}35\\ 26\mathrm{E}40 \end{array}$
		26E40 26E50
26-XX	REAL FUNCTIONS [See also 54C30]	26E60
26 - 00	General reference works (handbooks, dictionaries, bibliographies, etc.)	26E70
26 - 01	Instructional exposition (textbooks, tutorial papers, etc.)	
26-01 26-02	Research exposition (monographs, survey articles)	26E99
26-03	Historical (must also be assigned at least one classification number	$28\text{-}\mathbf{XX}$
	from Section 01)	
26 - 04	Explicit machine computation and programs (not the theory of	28 - 00
	computation or programming)	
26 - 06	Proceedings, conferences, collections, etc.	28 - 01
26Axx	Functions of one variable	28-02
26A03	Foundations: limits and generalizations, elementary topology of the line	28 - 03
26A06	One-variable calculus	28 - 04
26A09	Elementary functions	20 04
26A12	Rate of growth of functions, orders of infinity, slowly varying	28 - 06
	functions [See also 26A48]	28Axx
26A15	Continuity and related questions (modulus of continuity,	28A05
	semicontinuity, discontinuities, etc.) {For properties determined	
	by Fourier coefficients, see 42A16; for those determined by	28A10
00410	approximation properties, see 41A25, 41A27	28A12
$\begin{array}{c} 26A16\\ 26A18 \end{array}$	Lipschitz (Hölder) classes Iteration [See also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]	28A15
26A18 26A21	Classification of real functions; Baire classification of sets and	28A20
201121	functions [See also 03E15, 28A05, 54C50, 54H05]	201120
26A24	Differentiation (functions of one variable): general theory, generalized	28A25
	derivatives, mean-value theorems [See also 28A15]	28A33
26A27	Nondifferentiability (nondifferentiable functions, points of	28A35
	nondifferentiability), discontinuous derivatives	28A50
26A30	Singular functions, Cantor functions, functions with other special	28A51
064.99	properties Fractional derivatives and integrals	28A60
$\begin{array}{c} 26\mathrm{A33} \\ 26\mathrm{A36} \end{array}$	Fractional derivatives and integrals Antidifferentiation	28A75
26A30 26A39	Denjoy and Perron integrals, other special integrals	28A78
26A33 26A42	Integrals of Riemann, Stieltjes and Lebesgue type [See also 28–XX]	28A80
	[Source Date: Monday 1	

26A45	Functions of bounded variation, generalizations
26A46	Absolutely continuous functions
26A48	Monotonic functions, generalizations
26A51	Convexity, generalizations
26A99	None of the above, but in this section
26Bxx	Functions of several variables
26B05	Continuity and differentiation questions
26B10	Implicit function theorems, Jacobians, transformations with several
	variables
26B12	Calculus of vector functions
26B15	Integration: length, area, volume [See also 28A75, 51M25]
26B20	Integral formulas (Stokes, Gauss, Green, etc.)
26B25	Convexity, generalizations
26B30	Absolutely continuous functions, functions of bounded variation
26B35	Special properties of functions of several variables, Hölder conditions, etc.
26B40	Representation and superposition of functions
26B99	None of the above, but in this section
26Cxx	Polynomials, rational functions
26C05	Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
26C10	Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
26C15	Rational functions [See also 14Pxx]
26C99	None of the above, but in this section
26Dxx	Inequalities {For maximal function inequalities, see 42B25; for
	functional inequalities, see 39B72; for probabilistic inequalities, see 60E15}
26D05	Inequalities for trigonometric functions and polynomials
26D07	Inequalities involving other types of functions
26D10	Inequalities involving derivatives and differential and integral
	operators
26D15	Inequalities for sums, series and integrals
26D20	Other analytical inequalities
26D99	None of the above, but in this section
26Exx	Miscellaneous topics [See also 58Cxx]
26E05	Real-analytic functions [See also 32B05, 32C05]
26E10	C^{∞} -functions, quasi-analytic functions [See also 58C25]
26E15	Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
26E20	Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
26E25	Set-valued functions [See also 28B20, 49J53, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx}
26E30	Non-Archimedean analysis [See also 12J25]
26E35	Nonstandard analysis [See also 03H05, 28E05, 54J05]
26E40	Constructive real analysis [See also 03F60]
26E50	Fuzzy real analysis [See also 03E72, 28E10]
26E60	Means [See also 47A64]
26E70	Real analysis on time scales or measure chains {For dynamic
	equations on time scales or measure chains see $34N05$ }
26E99	None of the above, but in this section
28–XX	MEASURE AND INTEGRATION {For analysis on manifolds, see
28 - 00	58–XX} General reference works (handbooks, dictionaries, bibliographies,
0.5	etc.)
28 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
28-02	Research exposition (monographs, survey articles)
28-03	Historical (must also be assigned at least one classification number from Section 01)
28-04	Explicit machine computation and programs (not the theory of computation or programming)
28 - 06	Proceedings, conferences, collections, etc.
28Axx	Classical measure theory
28A05	Classes of sets (Borel fields, σ -rings, etc.), measurable sets, Suslin
	sets, analytic sets [See also 03E15, 26A21, 54H05]
28A10	Real- or complex-valued set functions
28A12	Contents, measures, outer measures, capacities
28A15	Abstract differentiation theory, differentiation of set functions
	[See also 26A24]
28A20	Measurable and nonmeasurable functions, sequences of measurable
	functions, modes of convergence
28A25	Integration with respect to measures and other set functions
28A33	Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
28A35	Measures and integrals in product spaces
28A50	Integration and disintegration of measures
28A51	Lifting theory [See also 46G15]

28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]

Measures on Boolean rings, measure algebras [See also 54H10]

- 28A78 Hausdorff and packing measures
- 28A80 Fractals [See also 37Fxx]

[Source Date: Monday 12 October 2009 21:56]

28A99	
20A99	None of the above, but in this section
28Bxx	Set functions, measures and integrals with values in abstract spaces
28B05	Vector-valued set functions, measures and integrals [See also 46G10]
28B10	Group- or semigroup-valued set functions, measures and integrals
28B15	Set functions, measures and integrals with values in ordered spaces
28B20	Set-valued set functions and measures; integration of set-valued
	functions; measurable selections [See also 26E25, 54C60, 54C65,
	91B14]
28B99	None of the above, but in this section
28Cxx	Set functions and measures on spaces with additional structure
	[See also 46G12, 58C35, 58D20]
28C05	Integration theory via linear functionals (Radon measures, Daniell
	integrals, etc.), representing set functions and measures
28C10	Set functions and measures on topological groups or semigroups,
20010	Haar measures, invariant measures [See also 22Axx, 43A05]
20015	
28C15	Set functions and measures on topological spaces (regularity of
	measures, etc.)
28C20	Set functions and measures and integrals in infinite-dimensional
	spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12,
	58C35, 58D20, 60B11]
28C99	None of the above, but in this section
28Dxx	Measure-theoretic ergodic theory [See also 11K50, 11K55, 22D40,
	37Axx, 47A35, 54H20, 60Fxx, 60G10]
28D05	Measure-preserving transformations
28D10	One-parameter continuous families of measure-preserving
	transformations
28D15	General groups of measure-preserving transformations
28D20	Entropy and other invariants
28D99	None of the above, but in this section
28Exx	Miscellaneous topics in measure theory
28E05	Nonstandard measure theory [See also 03H05, 26E35]
28E10	Fuzzy measure theory [See also 03E72, 26E50, 94D05]
28E15	Other connections with logic and set theory
28E99	None of the above, but in this section
201133	
30-XX	FUNCTIONS OF A COMPLEX VARIABLE {For analysis on
	manifolds, see 58–XX}
30 - 00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
30 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
30 - 02	Research exposition (monographs, survey articles)
30 - 03	Historical (must also be assigned at least one classification number
20.04	from Section 01)
30-04	Explicit machine computation and programs (not the theory of
30-04	
30-04 30-06	Explicit machine computation and programs (not the theory of computation or programming)
30-06	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc.
30–06 30Axx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties
30-06	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and
30–06 30Axx 30A05	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
30–06 30Axx 30A05 30A10	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain
30-06 30Axx 30A05 30A10 30A99	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section
30–06 30Axx 30A05 30A10	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions
30–06 30Axx 30A05 30A10 30A99 30Bxx	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series)
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX]
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX]
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15]
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B99	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B99 30Cxx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B99 30Cxx 30C10	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B99 30Cxx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B99 30Cxx 30C10	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B99 30Cxx 30C10	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B99 30Cxx 30C10	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B60 30B70 30B99 30Cxx 30C10 30C20	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B60 30B70 30B99 30Cxx 30C10 30C15	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B70 30B99 30Cxx 30C10 30C15 30C20 30C25 30C30	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B70 30B99 30Cxx 30C10 30C15 30C25 30C30 30C35	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory [See also 65E05] General theory of conformal mappings
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B50 30B60 30B70 30B99 30Cxx 30C10 30C15 30C25 30C25 30C30 30C35 30C40	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory [See also 65E05] General theory of conformal mappings Kernel functions and applications
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B70 30B99 30Cxx 30C10 30C15 30C25 30C30 30C35	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mapping theory Special classes of univalent and multivalent functions (starlike,
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B50 30B60 30B70 30B99 30Cxx 30C10 30C15 30C25 30C25 30C30 30C35 30C40	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory See also 65E05] General theory of conformal mappings Kernel functions and applications Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B50 30B60 30B70 30B99 30Cxx 30C10 30C15 30C25 30C25 30C30 30C35 30C40	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mapping theory Special classes of univalent and multivalent functions (starlike,
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B60 30B70 30B70 30B70 30C15 30C10 30C25 30C20 30C25 30C30 30C40 30C45 30C50	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mappings Kernel functions and applications Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.) Coefficient problems for univalent and multivalent functions
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B60 30B70 30B70 30B70 30C15 30C10 30C25 30C20 30C25 30C40 30C45 30C50 30C50	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mapping theory Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.) Coefficient problems for univalent and multivalent functions General theory of univalent and multivalent functions
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B60 30B70 30B70 30B70 30C25 30C10 30C25 30C20 30C25 30C40 30C55 30C50 30C55 30C50	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mapping theory Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.) Coefficient problems for univalent and multivalent functions General theory of univalent and multivalent functions Quasiconformal mappings in the plane
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B70 30B70 30B70 30C25 30C10 30C25 30C25 30C25 30C40 30C45 30C55 30C55 30C62 30C62	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mappings Kernel functions and applications Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.) Coefficient problems for univalent and multivalent functions General theory of univalent and multivalent functions
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B60 30B70 30B70 30B70 30C25 30C10 30C25 30C20 30C25 30C40 30C55 30C50 30C55 30C50	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mapping theory Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.) Coefficient problems for univalent and multivalent functions General theory of univalent
30–06 30Axx 30A05 30A10 30A99 30Bxx 30B10 30B20 30B30 30B40 30B50 30B60 30B70 30B70 30B70 30B70 30C25 30C10 30C25 30C25 30C25 30C40 30C45 30C55 30C55 30C55 30C62 30C65	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General properties Monogenic properties of complex functions (including polygenic and areolar monogenic functions) Inequalities in the complex domain None of the above, but in this section Series expansions Power series (including lacunary series) Random power series Boundary behavior of power series, over-convergence Analytic continuation Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX] Completeness problems, closure of a system of functions Continued fractions [See also 11A55, 40A15] None of the above, but in this section Geometric function theory Polynomials Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10} Conformal mappings of special domains Covering theorems in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mapping theory Numerical methods in conformal mappings Kernel functions and applications Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.) Coefficient problems for univalent and multivalent functions General theory of univalent and multivalent functions

30C75 Extremal problems for conformal and quasiconformal mappings, other methods

30C80	Maximum principle; Schwarz's lemma, Lindelöf principle, analogues
30C85	and generalizations; subordination Capacity and harmonic measure in the complex plane
20000	[See also 31A15]
30C99 30Dxx	None of the above, but in this section Entire and meromorphic functions, and related topics
30D05	Functional equations in the complex domain, iteration and
20D10	composition of analytic functions [See also 34Mxx, 37Fxx, 39–XX]
30D10 30D15	Representations of entire functions by series and integrals Special classes of entire functions and growth estimates
30D13 30D20	Entire functions, general theory
30D30	Meromorphic functions, general theory
30D35	Distribution of values, Nevanlinna theory
30D40	Cluster sets, prime ends, boundary behavior
30D45	Bloch functions, normal functions, normal families
30D60 30D99	Quasi-analytic and other classes of functions None of the above, but in this section
30Exx	Miscellaneous topics of analysis in the complex domain
30E05	Moment problems, interpolation problems
30E10	Approximation in the complex domain
30E15	Asymptotic representations in the complex domain
30E20	Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
30E25	Boundary value problems [See also 45Exx]
30E99	None of the above, but in this section
30Fxx	Riemann surfaces
30F10	Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
30F15	Harmonic functions on Riemann surfaces
30F20	Classification theory of Riemann surfaces
30F25 30F30	Ideal boundary theory Differentials on Riemann surfaces
30F35	Fuchsian groups and automorphic functions [See also 11Fxx, 20H10,
	22E40, 32Gxx, 32Nxx]
30F40	Kleinian groups [See also 20H10]
30F45	Conformal metrics (hyperbolic, Poincaré, distance functions)
30F50 30F60	Klein surfaces Teichmüller theory [See also 32G15]
30F99	None of the above, but in this section
30Gxx	Generalized function theory
30G06	Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
30G12	Finely holomorphic functions and topological function theory
30G20	Generalizations of Bers or Vekua type (pseudoanalytic, <i>p</i> -analytic,
30G25	etc.) Discrete analytic functions
30G30	Other generalizations of analytic functions (including abstract-valued
	functions)
30G35	Functions of hypercomplex variables and generalized variables
30G99 30Hxx	None of the above, but in this section Spaces and algebras of analytic functions
30H05	Bounded analytic functions
30H10	Hardy spaces
30H15	Nevanlinna class and Smirnov class
30H20	Bergman spaces, Fock spaces
30H25 30H30	Besov spaces and Q_p -spaces Bloch spaces
30H35	BMO-spaces
30H50	Algebras of analytic functions
30H80	Corona theorems
30H99	None of the above, but in this section
30Jxx 30J05	Function theory on the disc Inner functions
30J10 30J10	Blaschke products
30J15	Singular inner functions
30J99	None of the above, but in this section
30Kxx	Universal holomorphic functions
30K05 30K10	Universal Taylor series Universal Dirichlet series
30K10 30K15	Bounded universal functions
30K20	Compositional universality
30K99	None of the above, but in this section
30Lxx	Analysis on metric spaces
30L05	Geometric embeddings of metric spaces

Quasiconformal mappings in metric spaces

None of the above, but in this section

[Source Date: Monday 12 October 2009 21:56]

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30L10

30L99

S15

31 - XX

S16	
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31–XX	POTENTIAL THEORY {For probabilistic potential theory, see		
31 - 00	60J45 } General reference works (handbooks, dictionaries, bibliographies,		
31 - 01	etc.) Instructional exposition (textbooks, tutorial papers, etc.)		
31 - 02	Research exposition (monographs, survey articles)		
31 - 03	Historical (must also be assigned at least one classification number		
31 - 04	from Section 01) Explicit machine computation and programs (not the theory of		
31 - 06	computation or programming) Proceedings, conferences, collections, etc.		
31Axx	Two-dimensional theory		
31A05	Harmonic, subharmonic, superharmonic functions		
31A10	Integral representations, integral operators, integral equations methods		
31A15	Potentials and capacity, harmonic measure, extremal length [See also 30C85]		
31A20	Boundary behavior (theorems of Fatou type, etc.)		
$\begin{array}{c} 31A25\\ 31A30 \end{array}$	Boundary value and inverse problems Biharmonic, polyharmonic functions and equations, Poisson's		
	equation		
31A35 21A00	Connections with differential equations None of the above, but in this section		
31A99 31Bxx	Higher-dimensional theory		
31B05	Harmonic, subharmonic, superharmonic functions		
31B10	Integral representations, integral operators, integral equations methods		
31B15	Potentials and capacities, extremal length		
31B20	Boundary value and inverse problems		
31B25	Boundary behavior		
31B30	Biharmonic and polyharmonic equations and functions		
$\begin{array}{c} 31\mathrm{B}35\\ 31\mathrm{B}99 \end{array}$	Connections with differential equations None of the above, but in this section		
31Cxx	Other generalizations		
31C05	Harmonic, subharmonic, superharmonic functions		
31C10	Pluriharmonic and plurisubharmonic functions [See also 32U05]		
31C12	Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]		
31C15	Potentials and capacities		
31C20	Discrete potential theory and numerical methods		
31C25	Dirichlet spaces		
$\begin{array}{c} 31\mathrm{C}35\\ 31\mathrm{C}40 \end{array}$	Martin boundary theory [See also 60J50] Fine potential theory		
31C40 31C45	Other generalizations (nonlinear potential theory, etc.)		
31C99	None of the above, but in this section		
31Dxx	Axiomatic potential theory		
31D05	Axiomatic potential theory		
31D99 91 E	None of the above, but in this section		
31Exx 31E05	Potential theory on metric spaces Potential theory on metric spaces		
31E09	None of the above, but in this section		
32–XX	SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES		
	{For infinite-dimensional holomorphy, see 46G20, 58B12}		
32 - 00	General reference works (handbooks, dictionaries, bibliographies, etc.)		
32 - 01	Instructional exposition (textbooks, tutorial papers, etc.)		
$32-02 \\ 32-03$	Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number		
32-03	from Section 01)		
32 - 04	Explicit machine computation and programs (not the theory of computation or programming)		
32-06	Proceedings, conferences, collections, etc.		
32Axx	Holomorphic functions of several complex variables		
32A05	Power series, series of functions		
32A07	Special domains (Reinhardt, Hartogs, circular, tube)		
32A10 32A12	Holomorphic functions Multifunctions		
32A12 32A15	Entire functions		
32A17	Special families of functions		
32A18	Bloch functions, normal functions		
32A19	Normal families of functions, mappings		
32A20	Meromorphic functions		
32A22	Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}		
32A25	Integral representations; canonical kernels (Szegő, Bergman, etc.)		
32A26	Integral representations, constructed kernels (e.g. Cauchy, Fantappiè- type kernels)		
32A27	Local theory of residues [See also 32C30]		

32A30	Other generalizations of function theory of one complex variable
	(should also be assigned at least one classification number from
	Section 30) {For functions of several hypercomplex variables, see
	30G35}
32A35	H^p -spaces, Nevanlinna spaces [See also 32M15, 42B30, 43A85, 46J15]
32A36	Bergman spaces
32A37	Other spaces of holomorphic functions (e.g. bounded mean oscillation
52A51	
99490	(BMOA), vanishing mean oscillation (VMOA)) [See also 46Exx]
32A38	Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
32A40	Boundary behavior of holomorphic functions
32A45	Hyperfunctions [See also 46F15]
32A50	Harmonic analysis of several complex variables [See mainly 43–XX]
32A55	Singular integrals
32A60	Zero sets of holomorphic functions
32A65	Banach algebra techniques [See mainly 46Jxx]
32A70	Functional analysis techniques [See mainly 46Exx]
32A99	None of the above, but in this section
32Bxx	Local analytic geometry [See also 13–XX and 14–XX]
32B05	Analytic algebras and generalizations, preparation theorems
32B10	Germs of analytic sets, local parametrization
32B15	Analytic subsets of affine space
32B20	Semi-analytic sets and subanalytic sets [See also 14P15]
32B25	Triangulation and related questions
	· · ·
32B99	None of the above, but in this section
32Cxx	Analytic spaces
32C05	Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
32C07	Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
32C09	Embedding of real analytic manifolds
32C11	Complex supergeometry [See also 14A22, 14M30, 58A50]
32C15	Complex spaces
32C18	Topology of analytic spaces
32C20	Normal analytic spaces
32C22	Embedding of analytic spaces
32C25	Analytic subsets and submanifolds
32C30	Integration on analytic sets and spaces, currents {For local theory,
	see 32A25 or 32A27}
32C35	Analytic sheaves and cohomology groups [See also 14Fxx, 18F20,
02000	55N30]
32C36	Local cohomology of analytic spaces
32C37	Duality theorems
32C38	Sheaves of differential operators and their modules, <i>D</i> -modules
00 CFF	[See also 14F10, 16S32, 35A27, 58J15]
32C55	The Levi problem in complex spaces; generalizations
32C81	Applications to physics
32C99	None of the above, but in this section
	None of the above, but in this section Analytic continuation
32C99	None of the above, but in this section
32C99 32Dxx	None of the above, but in this section Analytic continuation
32C99 32Dxx 32D05	None of the above, but in this section Analytic continuation Domains of holomorphy
32C99 32Dxx 32D05 32D10	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects
32C99 32Dxx 32D05 32D10 32D15 32D20	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs,
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E35	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E35 32E40	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E35 32E40 32E99	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E30 32E40 32E99 32Fxx	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E35 32E40 32E99	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity q-convexity, q -concavity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E30 32E40 32E99 32Fxx	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E40 32E99 32Fxx 32F10	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity q-convexity, q -concavity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E35 32E40 32E99 32Fxx 32F10 32F17	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity q-convexity, q-concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E35 32E40 32E39 32Fxx 32F10 32F17 32F18	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E35 32E40 32E39 32E40 32E99 32Fxx 32F10 32F17 32F18 32F27	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity q-convexity, q-concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E35 32E40 32E39 32E40 32E99 32Fxx 32F10 32F17 32F18 32F27	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity (vanishing theorems, etc.)
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E35 32E40 32E99 32Fxx 32F10 32F17 32F18 32F27 32F32 32F45	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E30 32E40 32E99 32Fxx 32F10 32F17 32F18 32F27 32F32 32F45 32F99	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity Analytical consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E40 32E99 32Fxx 32F10 32F17 32F18 32F27 32F32 32F45 32F45 32F99 32Gxx	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity Analytical consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section Deformations of analytic structures
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E30 32E40 32E99 32Fxx 32F10 32F17 32F18 32F27 32F32 32F45 32F99	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity Analytical consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section Deformations of complex structures Deformations of complex structures [See also 13D10, 16S80, 58H10,
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E35 32E40 32E99 32Fxx 32F10 32F17 32F18 32F17 32F18 32F27 32F32 32F45 32F99 32Gxx 32G05	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section Deformations of complex structures Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E35 32E40 32E99 32Fxx 32F10 32F17 32F18 32F17 32F18 32F27 32F32 32F45 32F99 32G05 32G07	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity <i>q</i> -convexity, <i>q</i> -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity Analytical consequences of geometric convexity Analytical consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section Deformations of complex structures Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15] Deformations of special (e.g. CR) structures
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E30 32E40 32E99 32Fxx 32F10 32F17 32F18 32F17 32F18 32F27 32F32 32F45 32F99 32G05 32G07 32G08	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity q-convexity, q -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section Deformations of complex structures Deformations of special (e.g. CR) structures Deformations of fiber bundles
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E40 32E99 32Fxx 32F10 32F17 32F18 32F27 32F18 32F27 32F32 32F45 32F99 32G05 32G07 32G08 32G10	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphically convex complex spaces, reduction theory Stein spaces, Stein manifolds Polynomial convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity q-convexity, q-concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section Deformations of complex structures Deformations of special (e.g. CR) structures Deformations of submanifolds and subspaces
32C99 32Dxx 32D05 32D10 32D15 32D20 32D26 32D99 32Exx 32E05 32E10 32E20 32E30 32E30 32E30 32E30 32E40 32E99 32Fxx 32F10 32F17 32F18 32F17 32F18 32F27 32F32 32F45 32F99 32G05 32G07 32G08	None of the above, but in this section Analytic continuation Domains of holomorphy Envelopes of holomorphy Continuation of analytic objects Removable singularities Riemann domains None of the above, but in this section Holomorphic convexity Holomorphic and polynomial approximation, Runge pairs, interpolation Global boundary behavior of holomorphic functions The Levi problem None of the above, but in this section Geometric convexity q-convexity, q -concavity Other notions of convexity Finite-type conditions Topological consequences of geometric convexity (vanishing theorems, etc.) Invariant metrics and pseudodistances None of the above, but in this section Deformations of complex structures Deformations of special (e.g. CR) structures Deformations of fiber bundles

Moduli of Riemann surfaces, Teichmüller theory [See also 14H15,

[Source Date: Monday 12 October 2009 21:56]

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32G15

30Fxx]

32G20	Period matrices, variation of Hodge structure; degenerations	32
32G34	[See also 14D05, 14D07, 14K30] Moduli and deformations for ordinary differential equations (e.g.	32
92094	Knizhnik-Zamolodchikov equation) [See also 34Mxx]	$\frac{32}{32}$
32G81	Applications to physics	$32 \\ 32$
32G99	None of the above, but in this section	32
32Hxx	Holomorphic mappings and correspondences	32
32H02	Holomorphic mappings, (holomorphic) embeddings and related	32
	questions	32
32H04	Meromorphic mappings	32
32H12	Boundary uniqueness of mappings	02
32H25	Picard-type theorems and generalizations {For function-theoretic	32
0.0110.0	properties, see 32A22}	32
32H30	Value distribution theory in higher dimensions {For function-	32
201125	theoretic properties, see 32A22}	32
32H35 32H40	Proper mappings, finiteness theorems Boundary regularity of mappings	32
32H40 32H50	Boundary regularity of mappings Iteration problems	32
32H99	None of the above, but in this section	32
32Jxx	Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx;	
0-0111	for algebraic theory, see 14Jxx}	32
32J05	Compactification of analytic spaces	32
32J10	Algebraic dependence theorems	
32J15	Compact surfaces	32
32J17	Compact 3-folds	32
32J18	Compact n -folds	32
32J25	Transcendental methods of algebraic geometry [See also 14C30]	32
32J27	Compact Kähler manifolds: generalizations, classification	32
32J81	Applications to physics	32
32J99 32Kxx	None of the above, but in this section	32
32NXX	Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type	32
	of problem)	32
32 K05	Banach analytic spaces [See also 58Bxx]	32
32K07	Formal and graded complex spaces [See also 58C50]	32 32
32K15	Differentiable functions on analytic spaces, differentiable spaces	32 32
	[See also 58C25]	32 32
32K99	None of the above, but in this section	32
32Lxx	Holomorphic fiber spaces [See also 55Rxx]	32
32L05	Holomorphic bundles and generalizations	32
32L10	Sheaves and cohomology of sections of holomorphic vector bundles,	32
_	general results [See also 14F05, 18F20, 55N30]	32
32L15	Bundle convexity [See also 32F10]	32
32L20	Vanishing theorems	32
32L25	Twistor theory, double fibrations [See also 53C28]	32
32L81 32L99	Applications to physics None of the above, but in this section	32
32L99 32Mxx	Complex spaces with a group of automorphisms	32
32M05	Complex Lie groups, automorphism groups acting on complex spaces	32
0211100	[See also 22E10]	32
32M10	Homogeneous complex manifolds [See also 14M17, 57T15]	32
32M12	Almost homogeneous manifolds and spaces [See also 14M17]	32
32M15	Hermitian symmetric spaces, bounded symmetric domains, Jordan	32
	algebras [See also 22E10, 22E40, 53C35, 57T15]	32
32M17	Automorphism groups of \mathbb{C}^n and affine manifolds	32
32M25	Complex vector fields	32
32M99	None of the above, but in this section	32
32Nxx	Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]	32
32N05	General theory of automorphic functions of several complex variables	32
32N10	Automorphic forms	32
32N15	Automorphic functions in symmetric domains	32
32N99 32Pxx	None of the above, but in this section Non-Archimedean analysis (should also be assigned at least one	32
J21 XX	other classification number from Section 32 describing the type of	32
	problem)	32
32P05	Non-Archimedean analysis (should also be assigned at least one other	32
	classification number from Section 32 describing the type of problem)	33-X
32P99	None of the above, but in this section	
32Qxx	Complex manifolds	
32Q05	Negative curvature manifolds	
32Q10	Positive curvature manifolds	~ ~
32Q15	Kähler manifolds	33
32Q20	Kähler-Einstein manifolds [See also 53Cxx]	
32Q25	Calabi-Yau theory [See also 14J30]	33
32Q26	Notions of stability Stein manifolds	33
32Q28	Stein manifolds Uniformization	33
32Q30 32Q35	Complex manifolds as subdomains of Euclidean space	33
32Q35 32Q40	Embedding theorems	00
32Q40 32Q45	Hyperbolic and Kobayashi hyperbolic manifolds	33

32Q55	Topological aspects of complex manifolds			
32Q57	Classification theorems			
32Q60	Almost complex manifolds			
32Q65	Pseudoholomorphic curves			
32Q99	None of the above, but in this section			
32Sxx	Singularities [See also 58Kxx]			
32S05	Local singularities [See also 14J17]			
32S10	Invariants of analytic local rings			
32S15	Equisingularity (topological and analytic) [See also 14E15] Global theory of singularities; cohomological properties			
32S20	[See also 14E15]			
32S22	Relations with arrangements of hyperplanes [See also 52C35]			
32S22 $32S25$	Surface and hypersurface singularities [See also 14J17]			
32S30	Deformations of singularities; vanishing cycles [See also 14B07]			
32S35	Mixed Hodge theory of singular varieties [See also 14C30, 14D07]			
32S40	Monodromy; relations with differential equations and <i>D</i> -modules			
32S45	Modifications; resolution of singularities [See also 14E15]			
32S50	Topological aspects: Lefschetz theorems, topological classification,			
	invariants			
32S55	Milnor fibration; relations with knot theory [See also $57M25$, $57Q45$]			
32S60	Stratifications; constructible sheaves; intersection cohomology			
	[See also 58Kxx]			
32S65	Singularities of holomorphic vector fields and foliations			
32S70	Other operations on singularities			
32S99	None of the above, but in this section			
32Txx	Pseudoconvex domains Domains of holomorphy			
32T05 32T15	Strongly pseudoconvex domains			
32 T 10 32 T 20	Worm domains			
32T25	Finite type domains			
32T27	Geometric and analytic invariants on weakly pseudoconvex			
	boundaries			
32T35	Exhaustion functions			
32T40	Peak functions			
32T99	None of the above, but in this section			
32Uxx	Pluripotential theory			
32U05	Plurisubharmonic functions and generalizations [See also 31C10]			
32U10	Plurisubharmonic exhaustion functions			
32U15	General pluripotential theory			
32U20	Capacity theory and generalizations			
32U25	Lelong numbers			
32U30	Removable sets			
32U35 32U40	Pluricomplex Green functions Currents			
32U40 32U99	None of the above, but in this section			
32Vxx	CR manifolds			
32V05	CR structures, CR operators, and generalizations			
32V10	CR functions			
32V15	CR manifolds as boundaries of domains			
32V20	Analysis on CR manifolds			
32V25	Extension of functions and other analytic objects from CR manifolds			
32V30	Embeddings of CR manifolds			
32V35	Finite type conditions on CR manifolds			
32V40	Real submanifolds in complex manifolds			
32V99	None of the above, but in this section			
32Wxx	Differential operators in several variables $\overline{D}_{1} = 1 \overline{D}_{1} \overline{D}_{2} \overline{D}_{1}$			
32W05	$\overline{\partial}$ and $\overline{\partial}$ -Neumann operators			
32W10	$\overline{\partial}_b$ and $\overline{\partial}_b$ -Neumann operators			
32W20 32W25	Complex Monge-Ampère operators Pseudodifferential operators in several complex variables			
32 W 25 32W30	r seudodinerential operators in several complex variables			
32W50	Heat kornels in several complex variables			
32W99	Heat kernels in several complex variables Other partial differential equations of complex analysis			
0 - 11 0 0	Other partial differential equations of complex analysis			
o vv	Other partial differential equations of complex analysis None of the above, but in this section			
B-XX	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE			
3–XX	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal			
3–XX	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE			
3-XX	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for			
3–XX 33–00	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx} General reference works (handbooks, dictionaries, bibliographies,			
33-00	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx} General reference works (handbooks, dictionaries, bibliographies, etc.)			
33–00 33–01	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx} General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.)			
33-00 33-01 33-02	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33-XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11-XX; for representation theory see 22Exx} General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)			
33–00 33–01	Other partial differential equations of complex analysis None of the above, but in this section SPECIAL FUNCTIONS (33–XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx} General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.)			

- 33–04 Explicit machine computation and programs (not the theory of computation or programming)
- 33–06 Proceedings, conferences, collections, etc.

33Bxx	Elementary classical functions
33B10	Exponential and trigonometric functions
33B15	Gamma, beta and polygamma functions
33B20	Incomplete beta and gamma functions (error functions, probability
	integral, Fresnel integrals)
33B30	Higher logarithm functions
33B99	None of the above, but in this section
33Cxx	Hypergeometric functions
33C05	Classical hypergeometric functions, $_2F_1$
33C10	Bessel and Airy functions, cylinder functions, $_0F_1$
33C15	Confluent hypergeometric functions, Whittaker functions, $_1F_1$
33C20	Generalized hypergeometric series, ${}_{p}F_{q}$
33C45	Orthogonal polynomials and functions of hypergeometric type
	(Jacobi, Laguerre, Hermite, Askey scheme, etc.) [See also 42C05 for
	general orthogonal polynomials and functions
22047	
33C47	Other special orthogonal polynomials and functions
33C50	Orthogonal polynomials and functions in several variables expressible
	in terms of special functions in one variable
33C52	Orthogonal polynomials and functions associated with root systems
33C55	Spherical harmonics
	-
33C60	Hypergeometric integrals and functions defined by them (E, G, H)
	and I functions)
33C65	Appell, Horn and Lauricella functions
33C67	Hypergeometric functions associated with root systems
33C70	Other hypergeometric functions and integrals in several variables
33C75	Elliptic integrals as hypergeometric functions
33C80	Connections with groups and algebras, and related topics
33C90	Applications
	••
33C99	None of the above, but in this section
33Dxx	Basic hypergeometric functions
33D05	q-gamma functions, q-beta functions and integrals
33D15	Basic hypergeometric functions in one variable, $_r\varphi_s$
33D45	Basic orthogonal polynomials and functions (Askey-Wilson
	polynomials, etc.)
33D50	Orthogonal polynomials and functions in several variables expressible
00200	
	in terms of basic hypergeometric functions in one variable
33D52	Basic orthogonal polynomials and functions associated with root
	systems (Macdonald polynomials, etc.)
33D60	Basic hypergeometric integrals and functions defined by them
33D65	Bibasic functions and multiple bases
33D67	Basic hypergeometric functions associated with root systems
33D70	Other basic hypergeometric functions and integrals in several
	variables
33D80	Connections with quantum groups, Chevalley groups, <i>p</i> -adic groups,
33D00	
	Hecke algebras, and related topics
33D90	Applications
33D99	None of the above, but in this section
33Exx	Other special functions
33E05	Elliptic functions and integrals
33E10	Lamé, Mathieu, and spheroidal wave functions
33E12	Mittag-Leffler functions and generalizations
33E15	Other wave functions
33E17	Painlevé-type functions
33E20	Other functions defined by series and integrals
33E30	Other functions coming from differential, difference and integral
	equations
00750	
33E50	Special functions in characteristic p (gamma functions, etc.)
33E99	None of the above, but in this section
33Fxx	Computational aspects
33F05	Numerical approximation and evaluation [See also 65D20]
33F10	Symbolic computation (Gosper and Zeilberger algorithms, etc.)
	[See also 68W30]
33F99	None of the above, but in this section
34–XX	ORDINARY DIFFERENTIAL EQUATIONS
34 - 00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
34 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
34 - 02	Research exposition (monographs, survey articles)
34 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
34 - 04	Explicit machine computation and programs (not the theory of
04-04	
	computation or programming)
34 - 06	Proceedings, conferences, collections, etc.
34Axx	General theory
34A05	Explicit solutions and reductions
34A07	Fuzzy differential equations
34A08	Fractional differential equations
34A09	Implicit equations, differential-algebraic equations [See also 65L80]
34A12	
54A12	Initial value problems, existence, uniqueness, continuous dependence
	and continuation of solutions

34A25	Analytical theory: series, transformations, transforms, operational
34A26	calculus, etc. [See also 44–XX] Geometric methods in differential equations
34A20 34A30	Linear equations and systems, general
34A33	Lattice differential equations
34A34	Nonlinear equations and systems, general
34A35	Differential equations of infinite order
34A36	Discontinuous equations
34A37	Differential equations with impulses
34A38	Hybrid systems
34A40	Differential inequalities [See also 26D20]
34A45	Theoretical approximation of solutions {For numerical analysis, see 65Lxx}
34A55	Inverse problems
34A60	Differential inclusions [See also 49J21, 49K21]
34A99	None of the above, but in this section
34Bxx	Boundary value problems {For ordinary differential operators, see
24005	34Lxx}
34B05 34B07	Linear boundary value problems Linear boundary value problems with nonlinear dependence on the
04001	spectral parameter
34B08	Parameter dependent boundary value problems
34B09	Boundary eigenvalue problems
34B10	Nonlocal and multipoint boundary value problems
34B15	Nonlinear boundary value problems
34B16 34B18	Singular nonlinear boundary value problems Positive solutions of nonlinear boundary value problems
34B18 34B20	Weyl theory and its generalizations
34B24	Sturm-Liouville theory [See also 34Lxx]
34B27	Green functions
34B30	Special equations (Mathieu, Hill, Bessel, etc.)
34B37	Boundary value problems with impulses
34B40 24D45	Boundary value problems on infinite intervals
$\begin{array}{c} 34\mathrm{B}45\\ 34\mathrm{B}60 \end{array}$	Boundary value problems on graphs and networks Applications
34B99	None of the above, but in this section
34Cxx	Qualitative theory [See also 37–XX]
	quantative theory [see also of this
34C05	Location of integral curves, singular points, limit cycles
	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and
34C05 34C07	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications)
34C05	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials,
34C05 34C07 34C08	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.)
34C05 34C07	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials,
34C05 34C07 34C08 34C10	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory
34C05 34C07 34C08 34C10 34C11 34C12 34C14	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators
34C05 34C07 34C08 34C10 34C11 34C12 34C14	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20 34C23	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx]
$\begin{array}{c} 34\text{C05} \\ 34\text{C07} \\ \\ 34\text{C08} \\ \\ 34\text{C10} \\ 34\text{C11} \\ 34\text{C12} \\ 34\text{C12} \\ 34\text{C15} \\ 34\text{C20} \\ \\ \\ 34\text{C23} \\ 34\text{C25} \\ 34\text{C26} \\ 34\text{C27} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions
$\begin{array}{c} 34\text{C05} \\ 34\text{C07} \\ \\ 34\text{C08} \\ \\ 34\text{C10} \\ 34\text{C11} \\ 34\text{C12} \\ 34\text{C12} \\ 34\text{C14} \\ 34\text{C15} \\ 34\text{C20} \\ \\ \\ 34\text{C20} \\ \\ \\ 34\text{C25} \\ 34\text{C26} \\ 34\text{C27} \\ 34\text{C28} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx]
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C14} \\ 34 \text{C15} \\ 34 \text{C20} \\ \\ \\ 34 \text{C20} \\ \\ \\ 34 \text{C23} \\ 34 \text{C25} \\ 34 \text{C26} \\ \\ 34 \text{C27} \\ 34 \text{C28} \\ \\ 34 \text{C29} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C15} \\ 34 \text{C20} \\ \\ \\ 34 \text{C23} \\ 34 \text{C25} \\ 34 \text{C26} \\ 34 \text{C27} \\ 34 \text{C28} \\ 34 \text{C29} \\ 34 \text{C37} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C14} \\ 34 \text{C15} \\ 34 \text{C20} \\ \\ \\ 34 \text{C20} \\ \\ \\ 34 \text{C23} \\ 34 \text{C25} \\ 34 \text{C26} \\ \\ 34 \text{C27} \\ 34 \text{C28} \\ \\ 34 \text{C29} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C15} \\ 34 \text{C20} \\ \\ \\ 34 \text{C20} \\ \\ 34 \text{C23} \\ 34 \text{C26} \\ 34 \text{C26} \\ 34 \text{C27} \\ 34 \text{C28} \\ 34 \text{C29} \\ 34 \text{C37} \\ 34 \text{C40} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C15} \\ 34 \text{C20} \\ \\ \\ 34 \text{C20} \\ \\ \\ 34 \text{C23} \\ 34 \text{C25} \\ 34 \text{C26} \\ \\ 34 \text{C26} \\ 34 \text{C27} \\ \\ 34 \text{C28} \\ \\ 34 \text{C29} \\ \\ 34 \text{C29} \\ \\ 34 \text{C27} \\ \\ 34 \text{C40} \\ \\ \\ 34 \text{C41} \\ \\ 34 \text{C45} \\ \\ 34 \text{C46} \\ \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C13} \\ 34 \text{C20} \\ \\ \\ 34 \text{C20} \\ \\ 34 \text{C23} \\ 34 \text{C26} \\ 34 \text{C26} \\ 34 \text{C27} \\ 34 \text{C28} \\ 34 \text{C29} \\ 34 \text{C29} \\ 34 \text{C29} \\ 34 \text{C37} \\ 34 \text{C40} \\ 34 \text{C41} \\ 34 \text{C45} \\ 34 \text{C46} \\ 34 \text{C55} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C13} \\ 34 \text{C20} \\ \\ \\ 34 \text{C20} \\ \\ \\ 34 \text{C23} \\ 34 \text{C25} \\ 34 \text{C26} \\ \\ 34 \text{C26} \\ 34 \text{C27} \\ \\ 34 \text{C28} \\ \\ 34 \text{C29} \\ \\ 34 \text{C29} \\ \\ 34 \text{C29} \\ \\ 34 \text{C40} \\ \\ 34 \text{C45} \\ \\ 34 \text{C46} \\ \\ 34 \text{C55} \\ \\ 34 \text{C60} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models
$\begin{array}{c} 34C05\\ 34C07\\ \\34C08\\ \\34C10\\ 34C11\\ 34C12\\ 34C14\\ 34C15\\ 34C20\\ \\34C20\\ \\34C23\\ 34C25\\ 34C26\\ 34C27\\ 34C26\\ 34C27\\ 34C28\\ 34C29\\ 34C37\\ 34C40\\ 34C41\\ 34C45\\ 34C46\\ 34C45\\ 34C60\\ 34C99\\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section
$\begin{array}{c} 34 \text{C05} \\ 34 \text{C07} \\ \\ 34 \text{C08} \\ \\ 34 \text{C10} \\ 34 \text{C11} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C12} \\ 34 \text{C13} \\ 34 \text{C20} \\ \\ \\ 34 \text{C20} \\ \\ \\ 34 \text{C23} \\ 34 \text{C25} \\ 34 \text{C26} \\ \\ 34 \text{C26} \\ 34 \text{C27} \\ \\ 34 \text{C28} \\ \\ 34 \text{C29} \\ \\ 34 \text{C29} \\ \\ 34 \text{C29} \\ \\ 34 \text{C40} \\ \\ 34 \text{C45} \\ \\ 34 \text{C46} \\ \\ 34 \text{C55} \\ \\ 34 \text{C60} \\ \end{array}$	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section Stability theory [See also 37C75, 93Dxx]
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20 34C23 34C25 34C26 34C27 34C28 34C27 34C28 34C27 34C28 34C29 34C37 34C40 34C41 34C45 34C40 34C45 34C46 34C55 34C60 34C99 34Dxx	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20 34C23 34C23 34C26 34C27 34C26 34C27 34C28 34C29 34C37 34C40 34C41 34C45 34C40 34C45 34C46 34C55 34C60 34C99 34Dxx 34D05 34D06 34D08	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section Stability theory [See also 37C75, 93Dxx] Asymptotic properties
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20 34C23 34C25 34C26 34C27 34C28 34C26 34C27 34C28 34C29 34C37 34C40 34C41 34C45 34C40 34C45 34C60 34C99 34Dxx 34D05 34D06 34D08	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section Stability theory [See also 37C75, 93Dxx] Asymptotic properties Synchronization Characteristic and Lyapunov exponents Dichotomy, trichotomy
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20 34C23 34C25 34C26 34C27 34C28 34C27 34C28 34C27 34C28 34C27 34C28 34C29 34C37 34C40 34C41 34C45 34C40 34C45 34C60 34C99 34Dxx 34D05 34D06 34D09 34D10	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section Stability theory [See also 37C75, 93Dxx] Asymptotic properties Synchronization Characteristic and Lyapunov exponents Dichotomy, trichotomy Perturbations
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20 34C23 34C25 34C26 34C27 34C28 34C27 34C28 34C27 34C28 34C27 34C28 34C27 34C40 34C41 34C45 34C40 34C45 34C46 34C55 34C60 34C99 34Dxx 34D05 34D06 34D09 34D10 34D10 34D10	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section Stability theory [See also 37C75, 93Dxx] Asymptotic properties Synchronization Characteristic and Lyapunov exponents Dichotomy, trichotomy Perturbations Singular perturbations
34C05 34C07 34C08 34C10 34C11 34C12 34C14 34C15 34C20 34C23 34C25 34C26 34C27 34C28 34C27 34C28 34C27 34C28 34C27 34C28 34C29 34C37 34C40 34C41 34C45 34C40 34C45 34C60 34C99 34Dxx 34D05 34D06 34D09 34D10	Location of integral curves, singular points, limit cycles Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications) Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.) Oscillation theory, zeros, disconjugacy and comparison theory Growth, boundedness Monotone systems Symmetries, invariants Nonlinear oscillations, coupled oscillators Transformation and reduction of equations and systems, normal forms Bifurcation [See also 37Gxx] Periodic solutions Relaxation oscillations Almost and pseudo-almost periodic solutions Complex behavior, chaotic systems [See also 37Dxx] Averaging method Homoclinic and heteroclinic solutions Equations and systems on manifolds Equivalence, asymptotic equivalence Invariant manifolds Multifrequency systems Hysteresis Qualitative investigation and simulation of models None of the above, but in this section Stability theory [See also 37C75, 93Dxx] Asymptotic properties Synchronization Characteristic and Lyapunov exponents Dichotomy, trichotomy Perturbations

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34D35

34D45

34D99

Stability of manifolds of solutions

Attractors [See also 37C70, 37D45]

None of the above, but in this section

34Exx 34E05	Asymptotic theory Asymptotic expansions	3 4
34E03 34E10	Perturbations, asymptotics	34
34E10 34E13	Multiple scale methods	34
34E15	Singular perturbations, general theory	34
34E17	Canard solutions	34
$34\mathrm{E}18$	Methods of nonstandard analysis	
34E20	Singular perturbations, turning point theory, WKB methods	34
34E99	None of the above, but in this section	34
34Fxx	Equations and systems with randomness [See also 34K50, 60H10, 93E03]	34 34
34F05	Equations and systems with randomness [See also 34K50, 60H10, 93E03]	$\frac{3}{3}$
34F10	Bifurcation	34
34F15	Resonance phenomena	34
34F99	None of the above, but in this section	3
34Gxx	Differential equations in abstract spaces [See also 34Lxx, 37Kxx, 47Dxx, 47Hxx, 47Jxx, 58D25]	34
34G10	Linear equations [See also 47D06, 47D09]	3 4
34G20	Nonlinear equations [See also 47Hxx, 47Jxx]	
34G25	Evolution inclusions	34
34G99	None of the above, but in this section	2
34Hxx	Control problems [See also 49J15, 49K15, 93C15]	34
34H05	Control problems [See also 49J15, 49K15, 93C15]	35-
34H10	Chaos control	35
34H15	Stabilization	3!
34H20 34H99	Bifurcation control None of the above, but in this section	3
34H99 34Kxx	Functional-differential and differential-difference equations [See also 37–XX]	35
$34 \mathrm{K}05$	General theory	3!
34K06	Linear functional-differential equations	
34K07	Theoretical approximation of solutions	35
34K08	Spectral theory of functional-differential operators	35
$34 \mathrm{K09}$	Functional-differential inclusions	35
34K10	Boundary value problems	35
34K11	Oscillation theory	21
34K12	Growth, boundedness, comparison of solutions	3! 3!
34K13	Periodic solutions	3
34K14	Almost and pseudo-periodic solutions	3!
34K17	Transformation and reduction of equations and systems, normal forms	3! 3!
34K18 34K19	Bifurcation theory Invariant manifolds	35
34K19 34K20	Stability theory	35
34K21	Stationary solutions	35
34K23	Complex (chaotic) behavior of solutions	35
34K25	Asymptotic theory	35
34K26	Singular perturbations	3!
34K27	Perturbations	3
34K28	Numerical approximation of solutions	3!
34K29	Inverse problems	
34K30 34K31	Equations in abstract spaces [See also 34Gxx, 35R09, 35R10, 47Jxx] Lattice functional-differential equations	35
34K32	Implicit equations	35
34K33 34K34	Averaging Hybrid systems	
34K34 34K35	Hybrid systems Control problems [See also 49J21, 49K21, 93C23]	35
34K36	Fuzzy functional-differential equations	35
34K37	Functional-differential equations with fractional derivatives	3! 3!
34K38	Functional-differential inequalities	3
34K40	Neutral equations	3
34K45	Equations with impulses	35
34K50	Stochastic functional-differential equations [See also , $60Hxx$]	35
34 K60	Qualitative investigation and simulation of models	35
34K99	None of the above, but in this section	35
34Lxx	Ordinary differential operators [See also 47E05]	35
$\begin{array}{c} 34\mathrm{L}05\\ 34\mathrm{L}10 \end{array}$	General spectral theory Eigenfunctions, eigenfunction expansions, completeness of eigenfunctions	3!
34L15	eigenfunctions Figenvalues, estimation of eigenvalues, upper and lower bounds	35
$\begin{array}{c} 34L15\\ 34L16 \end{array}$	Eigenvalues, estimation of eigenvalues, upper and lower bounds Numerical approximation of eigenvalues and of other parts of the	3!
34L20	spectrum Asymptotic distribution of eigenvalues, asymptotic theory of	35
J4L2U	Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions	3! 3!
34L25	Scattering theory, inverse scattering	38
34L30	Nonlinear ordinary differential operators	3
34L40	Particular operators (Dirac, one-dimensional Schrödinger, etc.)	35
34L99	None of the above, but in this section	35
34L99	None of the above, but in this section [Source Date: Monday]	

34Mxx	Differential equations in the complex domain [See also 30Dxx, 32G34]			
34M03	Linear equations and systems			
34M05	Entire and meromorphic solutions			
34M10	Oscillation, growth of solutions			
34M15	Algebraic aspects (differential-algebraic, hypertranscendence, group-theoretical)			
34M25	Formal solutions, transform techniques			
34M30	Asymptotics, summation methods			
34M35	Singularities, monodromy, local behavior of solutions, normal forms			
34M40	Stokes phenomena and connection problems (linear and nonlinear)			
34M45	Differential equations on complex manifolds			
34M50	Inverse problems (Riemann-Hilbert, inverse differential Galois, etc.)			
34M55	Painlevé and other special equations; classification, hierarchies;			
34M56	Isomonodromic deformations			
34M60	Singular perturbation problems in the complex domain (complex WKB, turning points, steepest descent) [See also 34E20]			
34M99	None of the above, but in this section			
34Nxx	Dynamic equations on time scales or measure chains {For real analysis on time scales see 26E70}			
34N05	Dynamic equations on time scales or measure chains {For real analysis on time scales or measure chains, see 26E70}			
34N99	None of the above, but in this section			
5–XX 35–00	PARTIAL DIFFERENTIAL EQUATIONS General reference works (handbooks, dictionaries, bibliographies,			
95 01	etc.)			
35-01	Instructional exposition (textbooks, tutorial papers, etc.)			
$35-02 \\ 35-03$	Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number			
39-03	from Section 01)			
35 - 04	Explicit machine computation and programs (not the theory of computation or programming)			
35 - 06	Proceedings, conferences, collections, etc.			
35Axx	General topics			
35A01	Existence problems: global existence, local existence, non-existence			
35A02	Uniqueness problems: global uniqueness, local uniqueness, non- uniqueness			
35A08	Fundamental solutions			
35A09	Classical solutions			
35A10	Cauchy-Kovalevskaya theorems			
35A15	Variational methods			
35A16	Topological and monotonicity methods			
35A17	Parametrices			
35A18	Wave front sets			
35A20	Analytic methods, singularities			
35A21 35A22	Propagation of singularities			
35A22 35A23	Transform methods (e.g. integral transforms) Inequalities involving derivatives and differential and integral			
25 1 24	operators, inequalities for integrals			
35A24 35A25	Methods of ordinary differential equations			
35A25 35A27	Other special methods Microlocal methods; methods of sheaf theory and homological algebra			
001121	in PDE [See also 32C38, 58J15]			
35A30	Geometric theory, characteristics, transformations [See also 58J70, 58J72]			
35A35	Theoretical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx}			
35A99	None of the above, but in this section			
35Bxx	Qualitative properties of solutions			
35B05	Oscillation, zeros of solutions, mean value theorems, etc.			
35B06	Symmetries, invariants, etc.			
35B07	Axially symmetric solutions			
35B08	Entire solutions			
35B09 25D10	Positive solutions			
35B10 25D15	Periodic solutions			
35B15 35B20	Almost and pseudo-almost periodic solutions Perturbations			
35B25	Singular perturbations			
35B27	Homogenization; equations in media with periodic structure [See also 74Qxx, 76M50]			
35B30	Dependence of solutions on initial and boundary data, parameters [See also 37Cxx]			
35B32	Bifurcation [See also 37Gxx, 37K50]			
35B33	Critical exponents			
35B34	Resonances			
35B35	Stability			
35B36	Pattern formation			
35B38	Critical points			

35B41Attractors

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35B40 Asymptotic behavior of solutions

35B42	Inertial manifolds	35J20
35B44	Blow-up	35J25
35B45	A priori estimates	35J30
35B50	Maximum principles	35J35
35B51	Comparison principles	35J40
35B53	Liouville theorems, Phragmén-Lindelöf theorems	35J46
35B60	Continuation and prolongation of solutions [See also 58A15, 58A17,	35J47
	58Hxx]	35J48
35B65	Smoothness and regularity of solutions	35J50
35B99	None of the above, but in this section	35J56
35Cxx	Representations of solutions	35J57
35C05	Solutions in closed form	35J58
35C06	Self-similar solutions	35J60
35C07	Traveling wave solutions	35J61
35C08	Soliton solutions	35J62
35C09	Trigonometric solutions	35J65
35C10	Series solutions	35J66
35C11	Polynomial solutions	35J67
35C15	Integral representations of solutions	35J70 25.175
35C20	Asymptotic expansions	35J75
35C99 35Dxx	None of the above, but in this section Generalized solutions	35J86
35D30	Weak solutions	35J87
35D30	Strong solutions	20101
35D30 35D40	Viscosity solutions	35J88
35D99	None of the above, but in this section	35J91
35Exx	Equations and systems with constant coefficients [See also 35N05]	00001
35E05	Fundamental solutions	35J92
35E10	Convexity properties	35J93
35E15	Initial value problems	35J96
35E20	General theory	35J99
35E99	None of the above, but in this section	35Kxx
35Fxx	General first-order equations and systems	
35F05	Linear first-order equations	35K05
35F10	Initial value problems for linear first-order equations	35K08
35F15	Boundary value problems for linear first-order equations	35K10
35F16	Initial-boundary value problems for linear first-order equations	35K15
35F20	Nonlinear first-order equations	35K20
35F21	Hamilton-Jacobi equations	35K25
35F25	Initial value problems for nonlinear first-order equations	35K30
35F30	Boundary value problems for nonlinear first-order equations	35K35
35F31	Initial-boundary value problems for nonlinear first-order equations	35 K40
35F35	Linear first-order systems	35K41
35F40	Initial value problems for linear first-order systems	35K45
35F45	Boundary value problems for linear first-order systems	35K46
35F46	Initial-boundary value problems for linear first-order systems	35K51
35F50	Nonlinear first-order systems	35K52
35F55	Initial value problems for nonlinear first-order systems	35K55
35F60	Boundary value problems for nonlinear first-order systems	35K57
35F61	Initial-boundary value problems for nonlinear first-order systems	35K58
35F99	None of the above, but in this section	35K59
35Gxx	General higher-order equations and systems	35K60
35G05	Linear higher-order equations	35K61
35G10	Initial value problems for linear higher-order equations	
35G15	Boundary value problems for linear higher-order equations	35K65
35G16	Initial-boundary value problems for linear higher-order equations	35K67
35G20 35G25	Nonlinear higher-order equations Initial value problems for nonlinear higher-order equations	35K70 35K85
	· · · ·	35K85
$\begin{array}{c} 35\mathrm{G30}\\ 35\mathrm{G31} \end{array}$	Boundary value problems for nonlinear higher-order equations	35K86
35G31	Initial-boundary value problems for nonlinear higher-order equations Linear higher-order systems	351700
35G35 $35G40$	Initial value problems for linear higher-order systems	35K87
35G40 35G45	Boundary value problems for linear higher-order systems	35K90
35G46	Initial-boundary value problems for linear higher-order systems	35K91
35G50	Nonlinear higher-order systems	001001
35G55	Initial value problems for nonlinear higher-order systems	35K92
35G60	Boundary value problems for nonlinear higher-order systems	35K93
35G61	Initial-boundary value problems for nonlinear higher-order systems	35K96
35G99	None of the above, but in this section	35K99
35Hxx	Close-to-elliptic equations and systems	35Lxx
35H10	Hypoelliptic equations	35L02
35H20	Subelliptic equations	35L03
35H30	Quasi-elliptic equations	35L04
35H99	None of the above, but in this section	35L05
35Jxx	Elliptic equations and systems [See also 58J10, 58J20]	35L10
35J05	Laplacian operator, reduced wave equation (Helmholtz equation),	35L15
	Poisson equation [See also 31Axx, 31Bxx]	35L20
35J08	Green's functions	
35J10	Schrödinger operator [See also 35Pxx]	35L25
35.115	Second-order elliptic equations	35L30

35J15Second-order elliptic equations

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35L30

5J20 Variational methods for second-order elliptic equations 5J25 Boundary value problems for second-order elliptic equations Higher-order elliptic equations [See also 31A30, 31B30] 5J30Variational methods for higher-order elliptic equations 5J35 Boundary value problems for higher-order elliptic equations 5J40 5J46 First-order elliptic systems 5J47 Second-order elliptic systems 5J48Higher-order elliptic systems 5J50Variational methods for elliptic systems 5J56 Boundary value problems for first-order elliptic systems 5J57Boundary value problems for second-order elliptic systems 5J58Boundary value problems for higher-order elliptic systems 5J60Nonlinear elliptic equations Semilinear elliptic equations 5J615J62Quasilinear elliptic equations 5J65Nonlinear boundary value problems for linear elliptic equations 5J66Nonlinear boundary value problems for nonlinear elliptic equations Boundary values of solutions to elliptic equations 5J675J70Degenerate elliptic equations 5J75 Singular elliptic equations 5J86Linear elliptic unilateral problems and linear elliptic variational inequalities [See also 35R35, 49J40] 5J87Nonlinear elliptic unilateral problems and nonlinear elliptic variational inequalities [See also 35R35, 49J40] 5J88 Systems of elliptic variational inequalities [See also 35R35, 49J40] 5J91Semilinear elliptic equations with Laplacian, bi-Laplacian or poly-Laplacian 5J92 Quasilinear elliptic equations with *p*-Laplacian 5J93 Quasilinear elliptic equations with mean curvature operator 5J96 Elliptic Monge-Ampère equations 5J99 None of the above, but in this section Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 5Kxx 35R35, 58J35 5K05Heat equation 5K08Heat kernel Second-order parabolic equations 5K10 Initial value problems for second-order parabolic equations 5K155K20Initial-boundary value problems for second-order parabolic equations 5K25Higher-order parabolic equations 5K30Initial value problems for higher-order parabolic equations 5K35Initial-boundary value problems for higher-order parabolic equations 5K40Second-order parabolic systems Higher-order parabolic systems 5K415K45Initial value problems for second-order parabolic systems 5K46Initial value problems for higher-order parabolic systems Initial-boundary value problems for second-order parabolic systems 5K515K52Initial-boundary value problems for higher-order parabolic systems 5K55Nonlinear parabolic equations 5K57Reaction-diffusion equations 5K58Semilinear parabolic equations 5K59Quasilinear parabolic equations 5K60Nonlinear initial value problems for linear parabolic equations 5K61Nonlinear initial-boundary value problems for nonlinear parabolic equations 5K65Degenerate parabolic equations 5K67Singular parabolic equations 5K70Ultraparabolic equations, pseudoparabolic equations, etc. 5K85Linear parabolic unilateral problems and linear parabolic variational inequalities [See also 35R35, 49J40] 5K86 Nonlinear parabolic unilateral problems and nonlinear parabolic variational inequalities [See also 35R35, 49J40] 5K87 Systems of parabolic variational inequalities [See also 35R35, 49J40] 5K90Abstract parabolic equations 5K91Semilinear parabolic equations with Laplacian, bi-Laplacian or poly-Laplacian 5K92Quasilinear parabolic equations with *p*-Laplacian Quasilinear parabolic equations with mean curvature operator 5K93 Parabolic Monge-Ampère equations 5K965K99None of the above, but in this section Hyperbolic equations and systems [See also 58J45] 5LXX First-order hyperbolic equations 5L025L03Initial value problems for first-order hyperbolic equations Initial-boundary value problems for first-order hyperbolic equations 5L045L05Wave equation Second-order hyperbolic equations 5L105L15Initial value problems for second-order hyperbolic equations 5L20 Initial-boundary value problems for second-order hyperbolic equations

Higher-order hyperbolic equations

Initial value problems for higher-order hyperbolic equations

35L35	Initial-boundary value problems for higher-order hyperbolic equations	35Q62	PDEs in connection with statistics
35L40	First-order hyperbolic systems	35Q68	PDEs in connection with computer science
35L45	Initial value problems for first-order hyperbolic systems	35Q70	PDEs in connection with mechanics of particles and systems
35L50	Initial-boundary value problems for first-order hyperbolic systems	35Q74	PDEs in connection with mechanics of deformable solids
35L51	Second-order hyperbolic systems	35Q75	PDEs in connection with relativity and gravitational theory
35L52	Initial value problems for second-order hyperbolic systems	35Q76	Einstein equations
35L53	Initial-boundary value problems for second-order hyperbolic systems	35Q80	PDEs in connection with classical thermodynamics and heat transfer
35L55	Higher-order hyperbolic systems	35Q82	PDEs in connection with statistical mechanics
35L56	Initial value problems for higher-order hyperbolic systems	35Q83	Vlasov-like equations
35L57	Initial-boundary value problems for higher-order hyperbolic systems	35Q84	Fokker-Planck equations
35L60	Nonlinear first-order hyperbolic equations	35Q85	PDEs in connection with astronomy and astrophysics
35L65	Conservation laws	35Q86	PDEs in connection with geophysics
			0 - ·
35L67	Shocks and singularities [See also 58Kxx, 76L05]	35Q90	PDEs in connection with mathematical programming
35L70	Nonlinear second-order hyperbolic equations	35Q91	PDEs in connection with game theory, economics, social and
35L71	Semilinear second-order hyperbolic equations		behavioral sciences
35L72	Quasilinear second-order hyperbolic equations	35Q92	PDEs in connection with biology and other natural sciences
		-	
35L75	Nonlinear higher-order hyperbolic equations	35Q93	PDEs in connection with control and optimization
35L76	Semilinear higher-order hyperbolic equations	35Q94	PDEs in connection with information and communication
35L77	Quasilinear higher-order hyperbolic equations	35Q99	None of the above, but in this section
35L80	Degenerate hyperbolic equations	35Rxx	Miscellaneous topics {For equations on manifolds, see 58Jxx; for
		OOICAA	
35L81	Singular hyperbolic equations		manifolds of solutions, see 58Bxx; for stochastic PDE, see also
35L82	Pseudohyperbolic equations		60H15 }
35L85	Linear hyperbolic unilateral problems and linear hyperbolic	35R01	Partial differential equations on manifolds [See also 32Wxx, 53Cxx,
00-00	variational inequalities [See also 35R35, 49J40]		58Jxx]
051.00		35R02	
35L86	Nonlinear hyperbolic unilateral problems and nonlinear hyperbolic	33R02	Partial differential equations on graphs and networks (ramified or
	variational inequalities [See also 35R35, 49J40]		polygonal spaces)
35L87	Unilateral problems and variational inequalities for hyperbolic	35R03	Partial differential equations on Heisenberg groups, Lie groups,
30201	systems [See also 35R35, 49J40]		Carnot groups, etc.
		9506	
35L90	Abstract hyperbolic equations	35R05	Partial differential equations with discontinuous coefficients or data
35L99	None of the above, but in this section	35R06	Partial differential equations with measure
35Mxx	Equations and systems of special type (mixed, composite, etc.)	35R09	Integro-partial differential equations [See also 45Kxx]
35M10	Equations of mixed type	35R10	Partial functional-differential equations
			-
35M11	Initial value problems for equations of mixed type	35R11	Fractional partial differential equations
35M12	Boundary value problems for equations of mixed type	35R12	Impulsive partial differential equations
35M13	Initial-boundary value problems for equations of mixed type	35R13	Fuzzy partial differential equations
35M30	Systems of mixed type	35R15	Partial differential equations on infinite-dimensional (e.g. function)
		001010	- ()
35M31	Initial value problems for systems of mixed type		spaces (= PDE in infinitely many variables) [See also $46Gxx$, $58D25$]
35M32	Boundary value problems for systems of mixed type	35R20	Partial operator-differential equations (i.e., PDE on finite-
35M33	Initial-boundary value problems for systems of mixed type		dimensional spaces for abstract space valued functions)
	· - · · · ·		[See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H20, 47Jxx]
35M85	Linear unilateral problems and variational inequalities of mixed type	25025	Improperly posed problems
	[See also 35R35, 49J40]	35R25	Improperty posed problems
35M86		35R30	Inverse problems
35M86	Nonlinear unilateral problems and nonlinear variational inequalities		Inverse problems
	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40]	35R35	Inverse problems Free boundary problems
35M86 35M87	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35,	35R35 35R37	Inverse problems Free boundary problems Moving boundary problems
	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40]	$35R35 \\ 35R37 \\ 35R45$	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities
35M87	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40]	35R35 35R37	Inverse problems Free boundary problems Moving boundary problems
35M87 35M99	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section	35R35 35R37 35R45 35R50	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order
35M87 35M99 35Nxx	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15]	$35R35 \\ 35R37 \\ 35R45$	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial
35M87 35M99 35Nxx 35N05	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients 	35R35 35R37 35R45 35R50 35R60	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15]
35M87 35M99 35Nxx	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients 	35R35 35R37 35R45 35R50 35R60 35R70	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides
35M87 35M99 35Nxx 35N05 35N10	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients 	35R35 35R37 35R45 35R50 35R60	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15]
35M87 35M99 35Nxx 35N05	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients ∂-Neumann problem and generalizations; formal complexes 	35R35 35R37 35R45 35R50 35R60 35R70 35R99	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section
35M87 35M99 35Nxx 35N05 35N10 35N15	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients ∂-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] 	35R35 35R37 35R45 35R50 35R60 35R70	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients ∂-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40]
35M87 35M99 35Nxx 35N05 35N10 35N15	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients ∂-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Överdetermined systems with variable coefficients Överdetermined initial value problems Overdetermined boundary value problems 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40]
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N30	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ö-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N20 35N20 35N30 35N99	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ø-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems None of the above, but in this section 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N30	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Overdetermined and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 	35R35 35R45 35R45 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N20 35N20 35N30 35N99	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ø-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems None of the above, but in this section 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N25 35N30 35N99 35Pxx	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ø-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] 	35R35 35R45 35R45 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc.
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N30 35N99 35Pxx 35P05	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ø-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc.
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ø-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15]
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S30	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ø-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15]
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35P15 35P10 35P15 35P20	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S15 35S30 35S35 35S35	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P20 35P25	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Ø-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S30	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P20 35P25 35P30	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S15 35S30 35S35 35S35	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx,
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N29 35Pxx 35P05 35P10 35P15 35P10 35P25 35P20 35P25 35P30 35P99	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S15 35S30 35S35 35S35	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P20 35P25 35P30	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S30 35S35 35S30 35S35 35S50 35S99 37–XX	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX]
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N29 35Pxx 35P05 35P10 35P15 35P10 35P25 35P20 35P25 35P30 35P99	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also $35R35$, $49J40$] Systems of variational inequalities of mixed type [See also $35R35$, 49J40] None of the above, but in this section Overdetermined systems [See also $58Hxx$, $58J10$, $58J15$] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also $32W05$, $32W10$, $58J10$] Overdetermined initial value problems Overdetermined initial value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also $47Axx$, $47Bxx$, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also $47A40$] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S15 35S30 35S35 35S35	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies,
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P30 35P99 35Qxx	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05]	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S30 35S35 35S50 35S99 37–XX	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.)
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35P30 35P10 35P15 35P20 35P20 35P25 35P30 35P99 35Qxx	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations 	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.)
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35P30 35P10 35P15 35P10 35P15 35P20 35P25 35P30 35P29 35 Qxx 35Q05 35Q15	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S30 35S35 35S50 35S99 37–XX	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.)
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35N20 35P30 35P10 35P15 35P10 35P15 35P20 35P25 35P30 35P29 35 Qxx 35Q05 35Q15	 Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations 	35R35 35R45 35R45 35R60 35R60 35R70 35S99 35Sxx 35S05 35S10 35S15 35S10 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–01	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P20 35P25 35P30 35P25 35P30 35P99 35Qxx	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also $35R35$, $49J40$] Systems of variational inequalities of mixed type [See also $35R35$, 49J40] None of the above, but in this section Overdetermined systems [See also $58Hxx$, $58J10$, $58J15$] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also $32W05$, $32W10$, $58J10$] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also $47Axx$, $47Bxx$, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also $47A40$] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also $35J05$, $35J10$, $35K05$, $35L05$] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also $30E25$, $31A25$, $31B20$] Boltzmann equations	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 26C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P30 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q20 35Q30	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also $35R35$, $49J40$] Systems of variational inequalities of mixed type [See also $35R35$, 49J40] None of the above, but in this section Overdetermined systems [See also $58Hxx$, $58J10$, $58J15$] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also $32W05$, $32W10$, $58J10$] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also $47Axx$, $47Bxx$, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also $47A40$] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also $35J05$, $35J10$, $35K05$, $35L05$] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also $30E25$, $31A25$, $31B20$] Boltzmann equations Navier-Stokes equations [See also $76D05$, $76D07$, $76N10$]	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01)
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35P99 35Pxx 35P05 35P10 35P15 35P20 35P25 35P30 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q30 35Q31	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients <i>O</i> -verdetermined systems with variable coefficients <i>O</i> -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] Euler equations [See also 76D05, 76D07, 76N10]	35R35 35R45 35R45 35R60 35R60 35R70 35S99 35Sxx 35S05 35S10 35S15 35S10 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–01	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P30 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q20 35Q30	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also $35R35$, $49J40$] Systems of variational inequalities of mixed type [See also $35R35$, 49J40] None of the above, but in this section Overdetermined systems [See also $58Hxx$, $58J10$, $58J15$] Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also $32W05$, $32W10$, $58J10$] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also $47Axx$, $47Bxx$, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also $47A40$] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also $35J05$, $35J10$, $35K05$, $35L05$] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also $30E25$, $31A25$, $31B20$] Boltzmann equations Navier-Stokes equations [See also $76D05$, $76D07$, $76N10$]	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01)
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35P99 35Pxx 35P05 35P10 35P15 35P10 35P25 35P20 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q30 35Q31 35Q35	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming)
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N29 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q30 35Q31 35Q35 35Q40	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with quantum mechanics	35R35 35R45 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc.
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N29 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P20 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q31 35Q31 35Q31 35Q40 35Q41	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial value problems Overdetermined boundary value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] Euler equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with fluid mechanics Time-dependent Schrödinger equations, Dirac equations	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37 –06 37 –06 37 –06	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Research exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx]
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N29 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P20 35P25 35P30 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q31 35Q35 35Q40 35Q41 35Q51	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems [See also 47A10] Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] Euler equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with fluid mechanics Time-dependent Schrödinger equations, Dirac equations Soliton-like equations [See also 37K40]	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37Axx 37A05	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx] Measure-preserving transformations
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N29 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P20 35P25 35P30 35P99 35Qxx 35Q05 35Q15 35Q20 35Q31 35Q31 35Q31 35Q40 35Q41	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial value problems Overdetermined boundary value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] Euler equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with fluid mechanics Time-dependent Schrödinger equations, Dirac equations	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37 –06 37 –06 37 –06	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Research exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx]
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P20 35P25 35P30 35P25 35P30 35P25 35P30 35P25 35P30 35P25 35Q40 35Q31 35Q35 35Q40 35Q41 35Q51 35Q53	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients Overdetermined systems with constant coefficients Overdetermined systems with variable coefficients Overdetermined systems with variable coefficients Overdetermined initial value problems Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] Euler equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with fluid mechanics Sitime-dependent Schrödinger equations, Dirac equations Soliton-like equations [See also 37K40] KdV-like equations (Korteweg-de Vries) [See also 37K10]	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37Axx 37A05	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx] Measure-preserving transformations One-parameter continuous families of measure-preserving
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N20 35N25 35N30 35N99 35Pxx 35P05 35P10 35P15 35P10 35P15 35P20 35P25 35P30 35P25 35P30 35P25 35P30 35P25 35P30 35P25 35P30 35P35 35Q40 35Q31 35Q35 35Q40 35Q41 35Q51 35Q53 35Q55	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients <i>Overdetermined systems with constant coefficients</i> <i>Overdetermined systems with variable coefficients</i> <i>Overdetermined systems with variable coefficients</i> <i>Overdetermined systems with variable coefficients</i> <i>Overdetermined initial value problems</i> Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35.05, 35.101, 35K05, 351.05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] Euler equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with quantum mechanics Time-dependent Schrödinger equations, Dirac equations Soliton-like equations [See also 37K40] KdV-like equations (Korteweg-de Vries) [See also 37K10] NLS-like equations (nonlinear Schrödinger) [See also 37K10]	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37Axx 37A05 37A10	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial value problems for pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx] Measure-preserving transformations One-parameter continuous families of measure-preserving transformations
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N30 35N29 35Pxx 35P05 35P10 35P15 35P10 35P25 35P20 35P25 35P30 35P25 35P30 35P29 35Qxx 35Q05 35Q15 35Q20 35Q30 35Q31 35Q35 35Q40 35Q41 35Q51 35Q53 35Q55 35Q56	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients ∂ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with quantum mechanics Time-dependent Schrödinger equations, Dirac equations Soliton-like equations [See also 37K40] KdV-like equations (Korteweg-de Vries) [See also 37K10] NLS-like equations (nonlinear Schrödinger) [See also 37K10] Ginzburg-Landau equations	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37Axx 37A05	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial operators [See also 47G30, 58J40] Pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx] Measure-preserving transformations One-parameter continuous families of measure-preserving transformations General groups of measure-preserving transformations
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N30 35N29 35Pxx 35P05 35P10 35P15 35P20 35P25 35P30 35P99 35Qxx 35Q99 35Qxx 35Q05 35Q15 35Q20 35Q30 35Q31 35Q31 35Q31 35Q40 35Q41 35Q51 35Q55 35Q55 35Q60	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients $\overline{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined initial value problems Overdetermined initial-boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with fluid mechanics PDEs in connection with fluid mechanics PDEs in connection with quantum mechanics Time-dependent Schrödinger equations, Dirac equations Soliton-like equations (Korteweg-de Vries) [See also 37K10] MLS-like equations (nonlinear Schrödinger) [See also 37K10] MLS-like equations (nonlinear Schrödinger) [See also 37K10] MLS-like equations with optics and electromagnetic theory	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S30 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37 –04 37–06 37 A15	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations of infinite order Partial differential equations with randomness, stochastic partial differential equations [See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators and other generalizations of partial differential operators and other generalizations of partial differential operators Initial value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx] Measure-preserving transformations One-parameter continuous families of measure-preserving transformations General groups of measure-preserving transformations [See mainly 22Fxx]
35M87 35M99 35Nxx 35N05 35N10 35N15 35N20 35N25 35N30 35N29 35Pxx 35P05 35P10 35P15 35P10 35P25 35P20 35P25 35P30 35P25 35P30 35P29 35Qxx 35Q05 35Q15 35Q20 35Q30 35Q31 35Q35 35Q40 35Q41 35Q51 35Q53 35Q55 35Q56	Nonlinear unilateral problems and nonlinear variational inequalities of mixed type [See also 35R35, 49J40] Systems of variational inequalities of mixed type [See also 35R35, 49J40] None of the above, but in this section Overdetermined systems [See also 58Hxx, 58J10, 58J15] Overdetermined systems with constant coefficients ∂ -Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10] Overdetermined initial value problems Overdetermined boundary value problems Overdetermined initial-boundary value problems None of the above, but in this section Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05] General topics in linear spectral theory Completeness of eigenfunctions, eigenfunction expansions Estimation of eigenvalues, upper and lower bounds Asymptotic distribution of eigenvalues and eigenfunctions Scattering theory [See also 47A40] Nonlinear eigenvalue problems, nonlinear spectral theory None of the above, but in this section Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05] Euler-Poisson-Darboux equations Riemann-Hilbert problems [See also 30E25, 31A25, 31B20] Boltzmann equations Navier-Stokes equations [See also 76D05, 76D07, 76N10] PDEs in connection with fluid mechanics PDEs in connection with quantum mechanics Time-dependent Schrödinger equations, Dirac equations Soliton-like equations [See also 37K40] KdV-like equations (Korteweg-de Vries) [See also 37K10] NLS-like equations (nonlinear Schrödinger) [See also 37K10] Ginzburg-Landau equations	35R35 35R37 35R45 35R50 35R60 35R70 35R99 35Sxx 35S05 35S10 35S11 35S15 35S30 35S35 35S50 35S35 35S50 35S99 37–XX 37–00 37–01 37–02 37–03 37–04 37–06 37Axx 37A05 37A10	Inverse problems Free boundary problems Moving boundary problems Partial differential inequalities Partial differential equations with randomness, stochastic partial differential equations (See also 60H15] Partial differential equations with multivalued right-hand sides None of the above, but in this section Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40] Pseudodifferential operators Initial operators [See also 47G30, 58J40] Pseudodifferential operators Initial-boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Boundary value problems for pseudodifferential operators Fourier integral operators Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15] Paradifferential operators None of the above, but in this section DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX] General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Ergodic theory [See also 28Dxx] Measure-preserving transformations One-parameter continuous families of measure-preserving transformations General groups of measure-preserving transformations

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37Fxx

37F05

37F10

37A20	Orbit equivalence, cocycles, ergodic equivalence relations			
37A25	Ergodicity, mixing, rates of mixing			
37A30	Ergodic theorems, spectral theory, Markov operators {For operator ergodic theory, see mainly 47A35}			
37A35	Entropy and other invariants, isomorphism, classification			
37A40	Nonsingular (and infinite-measure preserving) transformations Relations with number theory and harmonic analysis			
37A45	Relations with number theory and harmonic analysis [See also 11Kxx]			
37A50	Relations with probability theory and stochastic processes [See also 60Fxx and 60G10]			
37A55 37A60	Relations with the theory of C^* -algebras [See mainly 46L55] Dynamical systems in statistical mechanics [See also 82Cxx]			
37A99	None of the above, but in this section			
37Bxx	Topological dynamics [See also 54H20]			
37B05	Transformations and group actions with special properties (minimality, distality, proximality, etc.)			
37B10	Symbolic dynamics [See also 37Cxx, 37Dxx]			
37B15	Cellular automata [See also 68Q80]			
37B20 27D25	Notions of recurrence Lyapunov functions and stability; attractors, repellers			
37B25 37B30	Index theory, Morse-Conley indices			
37B35	Gradient-like and recurrent behavior; isolated (locally maximal)			
37B40	invariant sets Topological entropy			
37B45	Continua theory in dynamics			
37B50	Multi-dimensional shifts of finite type, tiling dynamics			
37B55	Nonautonomous dynamical systems			
37B99	None of the above, but in this section			
37Cxx	Smooth dynamical systems: general theory [See also 34Cxx, 34Dxx]			
37C05 37C10	Smooth mappings and diffeomorphisms Vector fields, flows, ordinary differential equations			
37C10 37C15	Topological and differentiable equivalence, conjugacy, invariants,			
	moduli, classification			
37C20	Generic properties, structural stability			
37C25 37C27	Fixed points, periodic points, fixed-point index theory Periodic orbits of vector fields and flows			
37C27 37C29	Homoclinic and heteroclinic orbits			
37C30	Zeta functions, (Ruelle-Frobenius) transfer operators, and other functional analytic techniques in dynamical systems			
37C35	Orbit growth			
37C40	Smooth ergodic theory, invariant measures [See also 37Dxx]			
$\begin{array}{c} 37\mathrm{C}45\\ 37\mathrm{C}50 \end{array}$	Dimension theory of dynamical systems Approximate trajectories (pseudotrajectories, shadowing, etc.)			
37C50 $37C55$	Periodic and quasiperiodic flows and diffeomorphisms			
37C60	Nonautonomous smooth dynamical systems [See also 37B55]			
37C65	Monotone flows			
37C70	Attractors and repellers, topological structure			
37C75	Stability theory			
37C80 37C85	Symmetries, equivariant dynamical systems \mathbf{D} ynamics of group actions other than \mathbf{Z} and \mathbf{R} , and foliations			
31003	[See mainly 22Fxx, and also 57R30, 57Sxx]			
37C99	None of the above, but in this section			
37Dxx	Dynamical systems with hyperbolic behavior			
37D05 37D10	Hyperbolic orbits and sets Invariant manifold theory			
37D10 37D15	Morse-Smale systems			
37D20	Uniformly hyperbolic systems (expanding, Anosov, Axiom A, etc.)			
37D25	Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)			
37D30	Partially hyperbolic systems and dominated splittings			
37D35	Thermodynamic formalism, variational principles, equilibrium states			
37D40	Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)			
37D45 37D50	Strange attractors, chaotic dynamics Hyperbolic systems with singularities (billiards, etc.)			
37D50 37D99	Hyperbolic systems with singularities (billiards, etc.) None of the above, but in this section			
37Exx	Low-dimensional dynamical systems			
37E05	Maps of the interval (piecewise continuous, continuous, smooth)			
37E10	Maps of the circle			
37E15	Combinatorial dynamics (types of periodic orbits)			
37E20	Universality, renormalization [See also 37F25]			
37E25 37E30	Maps of trees and graphs Homeomorphisms and diffeomorphisms of planes and surfaces			
37E30 37E35	Flows on surfaces			
37E33 37E40	Twist maps			
37E45	Rotation numbers and vectors			

Rotation numbers and vectors

None of the above, but in this section

37E45

37E99

37F15	Expanding maps; hyperbolicity; structural stability
37F20	Combinatorics and topology
37F25	Renormalization
37F30	Quasiconformal methods and Teichmüller theory; Fuchsian and
	Kleinian groups as dynamical systems
37F35	Conformal densities and Hausdorff dimension
37F40	Geometric limits
37F45	Holomorphic families of dynamical systems; the Mandelbrot set;
011 10	bifurcations
37F50	Small divisors, rotation domains and linearization; Fatou and Julia
011 00	sets
37F75	Holomorphic foliations and vector fields [See also 32M25, 32S65, 34Mxx]
37F99	None of the above, but in this section
37Gxx	Local and nonlocal bifurcation theory [See also 34C23, 34K18]
37G05	Normal forms
37G10	Bifurcations of singular points
37G10 37G15	
	Bifurcations of limit cycles and periodic orbits
37G20	Hyperbolic singular points with homoclinic trajectories
37G25	Bifurcations connected with nontransversal intersection
37G30	Infinite nonwandering sets arising in bifurcations
37G35	Attractors and their bifurcations
37G40	Symmetries, equivariant bifurcation theory
37G99	None of the above, but in this section
37Hxx	Random dynamical systems [See also 15B52, 34D08, 34F05, 47B80,
	70L05, 82C05, 93Exx]
37H05	Foundations, general theory of cocycles, algebraic ergodic theory [See also 37Axx]
37H10	Generation, random and stochastic difference and differential equations [See also 34F05, 34K50, 60H10, 60H15]
37 H15	Multiplicative ergodic theory, Lyapunov exponents [See also 34D08,
571115	37Axx, 37Cxx, 37Dxx]
37H20	Bifurcation theory [See also 37Gxx]
37H20 37H99	None of the above, but in this section
571199	None of the above, but in this section
97 T	Finite dimensional Hamiltonian Leanengian contact and
37Jxx	Finite-dimensional Hamiltonian, Lagrangian, contact, and
	nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx]
37J05	nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology
37J05 37J10	nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points
37J05 37J10 37J15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20]
37J05 37J10 37J15 37J20	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems
37J05 37J10 37J15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20]
37J05 37J10 37J15 37J20	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems
37J05 37J10 37J15 37J20 37J25	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems
37J05 37J10 37J15 37J20 37J25 37J30	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods
37J05 37J10 37J15 37J20 37J25 37J30 37J35	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space,
37J05 37J10 37J15 37J20 37J25 37J30 37J35	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods,
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J50	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J50 37J55	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10]
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J50 37J55 37J60	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25]
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J50 37J55 37J60 37J99	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J45 37J50 37J55 37J60 37J99 37Kxx	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx]
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J50 37J55 37J60 37J99	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles,
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J50 37J55 37J60 37J99 37Kxx 37K05	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J45 37J50 37J55 37J60 37J99 37Kxx	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J99 37Kxx 37K05	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infnite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.)
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J50 37J55 37J60 37J99 37Kxx 37K05	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods Relations with algebraic geometry, complex analysis, special functions [See also 14H70]
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15 37K10 37K15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods Relations with algebraic geometry, complex analysis, special functions [See also 14H70] Relations with differential geometry
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods Relations with algebraic geometry, complex analysis, special functions [See also 14H70]
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15 37K10 37K15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods Relations with algebraic geometry, complex analysis, special functions [See also 14H70] Relations with differential geometry Relations with differential geometry Relations with infinite-dimensional Lie algebras and other algebraic structures
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15 37K10 37K15	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods Relations with algebraic geometry, complex analysis, special functions [See also 14H70] Relations with differential geometry Relations with differential geometry Relations with infinite-dimensional Lie algebras and other algebraic structures Lie-Bäcklund and other transformations
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15 37K10 37K15 37K20 37K25	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods Relations with algebraic geometry, complex analysis, special functions [See also 14H70] Relations with differential geometry Relations with differential geometry Relations with infinite-dimensional Lie algebras and other algebraic structures
37J05 37J10 37J15 37J20 37J25 37J30 37J35 37J40 37J45 37J40 37J45 37J50 37J55 37J60 37J55 37J60 37J99 37Kxx 37K05 37K10 37K15 37K10 37K15 37K20 37K25 37K30 37K35	 nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx] General theory, relations with symplectic geometry and topology Symplectic mappings, fixed points Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20] Bifurcation problems Stability problems Obstructions to integrability (nonintegrability criteria) Completely integrable systems, topological structure of phase space, integration methods Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods Action-minimizing orbits and measures Contact systems [See also 53D10] Nonholonomic dynamical systems [See also 70F25] None of the above, but in this section Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx] Hamiltonian structures, symmetries, variational principles, conservation laws Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.) Integration of completely integrable systems by inverse spectral and scattering methods Relations with algebraic geometry, complex analysis, special functions [See also 14H70] Relations with differential geometry Relations with differential geometry Relations with differential geometry Relations with differential geometry Relations with infinite-dimensional Lie algebras and other algebraic structures Lie-Bäcklund and other transformations

Complex dynamical systems [See also 30D05, 32H50]

Expanding maps; hyperbolicity; structural stability

Polynomials; rational maps; entire and meromorphic functions

Relations and correspondences

[See also 32A10, 32A20, 32H02, 32H04]

- Perturbations, KAM for infinite-dimensional systems 37K55
- 37 K60Lattice dynamics [See also 37L60]
- 37 K65Hamiltonian systems on groups of diffeomorphisms and on manifolds of mappings and metrics
- 37K99None of the above, but in this section

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39A24

39A28

Almost periodic solutions

Bifurcation theory

37Lxx Infinite-dimensional dissipative dynamical systems [See also 35Bxx, 35Oxx 37L05General theory, nonlinear semigroups, evolution equations 37L10Normal forms, center manifold theory, bifurcation theory 37L15Stability problems 37L20**Symmetries** 37L25Inertial manifolds and other invariant attracting sets 37L30Attractors and their dimensions, Lyapunov exponents 37L40Invariant measures 37L45Hyperbolicity; Lyapunov functions 37L50Noncompact semigroups; dispersive equations; perturbations of Hamiltonian systems 37L55Infinite-dimensional random dynamical systems; stochastic equations [See also 35R60, 60H10, 60H15] 37L60Lattice dynamics [See also 37K60] Special approximation methods (nonlinear Galerkin, etc.) 37L6537L99None of the above, but in this section 37Mxx Approximation methods and numerical treatment of dynamical systems [See also 65Pxx] 37M05Simulation 37M10Time series analysis 37M15Symplectic integrators 37M20Computational methods for bifurcation problems 37M25Computational methods for ergodic theory (approximation of invariant measures, computation of Lyapunov exponents, entropy) 37M99None of the above, but in this section 37Nxx Applications 37N05Dynamical systems in classical and celestial mechanics [See mainly 70Fxx, 70Hxx, 70Kxx] 37N10 Dynamical systems in fluid mechanics, oceanography and meteorology [See mainly 76-XX, especially 76D05, 76F20, 86A05, 86A10 37N15Dynamical systems in solid mechanics [See mainly 74Hxx] 37N20 Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics) 37N25Dynamical systems in biology [See mainly 92–XX, but also 91–XX] Dynamical systems in numerical analysis 37N3037N35 Dynamical systems in control 37N40Dynamical systems in optimization and economics 37N99 None of the above, but in this section 37Pxx Arithmetic and non-Archimedean dynamical systems [See also 11882, **37A45** 37P05Polynomial and rational maps 37P10 Analytic and meromorphic maps 37P15 Global ground fields 37P20Non-Archimedean local ground fields 37P25Finite ground fields 37P30Height functions; Green functions; invariant measures [See also 11G50, 14G40] 37P35Arithmetic properties of periodic points 37P40Non-Archimedean Fatou and Julia sets 37P45Families and moduli spaces 37P50Dynamical systems on Berkovich spaces 37P55Arithmetic dynamics on general algebraic varieties 37P99 None of the above, but in this section 39-XX DIFFERENCE AND FUNCTIONAL EQUATIONS 39 - 00General reference works (handbooks, dictionaries, bibliographies, etc.) 39 - 01Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) 39 - 0239 - 03Historical (must also be assigned at least one classification number from Section 01) 39 - 04Explicit machine computation and programs (not the theory of computation or programming) 39 - 06Proceedings, conferences, collections, etc. 39Axx Difference equations {For dynamical systems, see 37–XX; for dynamic equations on time scales, see 34N0539A05 General theory 39A06 Linear equations Difference equations, additive 39A10Discrete version of topics in analysis 39A12 39A13 Difference equations, scaling (q-differences) [See also 33Dxx] Partial difference equations 39A14 39A20 Multiplicative and other generalized difference equations, e.g. of Lyness type 39A21 Oscillation theory 39A22 Growth, boundedness, comparison of solutions 39A23 Periodic solutions

39A30 Stability theory 39A33 Complex (chaotic) behavior of solutions 39A45Equations in the complex domain 39A50Stochastic difference equations 39A60 Applications 39A70Difference operators [See also 47B39] 39A99 None of the above, but in this section 39Bxx Functional equations and inequalities [See also 30D05] 39B05General 39B12Iteration theory, iterative and composite equations [See also 26A18, 30D05, 37–XX] Equations for real functions [See also 26A51, 26B25] 39B2239B32Equations for complex functions [See also 30D05] 39B42Matrix and operator equations [See also 47Jxx] 39B52Equations for functions with more general domains and/or ranges 39B55Orthogonal additivity and other conditional equations Functional inequalities, including subadditivity, convexity, etc. 39B62 [See also 26A51, 26B25, 26Dxx] 39B72 Systems of functional equations and inequalities 39B82 Stability, separation, extension, and related topics [See also 46A22] 39B99None of the above, but in this section 40-XXSEQUENCES, SERIES, SUMMABILITY 40 - 00General reference works (handbooks, dictionaries, bibliographies, etc.) 40 - 01Instructional exposition (textbooks, tutorial papers, etc.) 40 - 02Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number 40 - 03from Section 01) 40 - 04Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. 40 - 06Convergence and divergence of infinite limiting processes 40Axx 40A05 Convergence and divergence of series and sequences 40A10 Convergence and divergence of integrals 40A15 Convergence and divergence of continued fractions [See also 30B70] 40A20 Convergence and divergence of infinite products 40A25Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B1540A30 Convergence and divergence of series and sequences of functions 40A35Ideal and statistical convergence [See also 40G15] 40A99 None of the above, but in this section 40Bxx Multiple sequences and series 40B05Multiple sequences and series (should also be assigned at least one other classification number in this section) 40B99None of the above, but in this section 40Cxx General summability methods 40C05Matrix methods 40C10Integral methods 40C15Function-theoretic methods (including power series methods and semicontinuous methods) 40C99None of the above, but in this section 40Dxx Direct theorems on summability 40D05General theorems 40D09 Structure of summability fields Tauberian constants and oscillation limits 40D10 40D15Convergence factors and summability factors 40D20Summability and bounded fields of methods 40D25Inclusion and equivalence theorems 40D99 None of the above, but in this section **Inversion theorems** 40Exx 40E05Tauberian theorems, general 40E10Growth estimates Lacunary inversion theorems 40E15Tauberian constants 40E2040E99None of the above, but in this section 40Fxx Absolute and strong summability (should also be assigned at least one other classification number in Section 40) Absolute and strong summability (should also be assigned at least 40F05one other classification number in Section 40) 40F99None of the above, but in this section 40Gxx Special methods of summability 40G05Cesàro, Euler, Nörlund and Hausdorff methods 40G10Abel, Borel and power series methods Summability methods using statistical convergence [See also 40A35] 40G15None of the above, but in this section 40G9940Hxx Functional analytic methods in summability

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40H05

40 H99

Functional analytic methods in summability

None of the above, but in this section

42A45

Multipliers

40Jxx	Summability in abstract structures [See also 43A55, 46A35, 46B15]	42A50
40J05	Summability in abstract structures [See also 43A55, 46A35, 46B15]	42A55
10000		
	(should also be assigned at least one other classification number in	42A61
	this section)	42A63
40J99	None of the above, but in this section	
41 VV	ADDOVIMATIONS AND EVDANSIONS (E.g. 1)	42A65
41–XX	APPROXIMATIONS AND EXPANSIONS {For all approximation	42A70
	theory in the complex domain, see 30E05 and 30E10; for all	
	trigonometric approximation and interpolation, see 42A10 and	42A75
	42A15; for numerical approximation, see 65Dxx}	
41 - 00	General reference works (handbooks, dictionaries, bibliographies,	42A82
41-00		42A85
	etc.)	42A99
41 - 01	Instructional exposition (textbooks, tutorial papers, etc.)	
41 - 02	Research exposition (monographs, survey articles)	42Bxx
41 - 03	Historical (must also be assigned at least one classification number	
11 00	from Section 01)	42B05
11 01		42B08
41 - 04	Explicit machine computation and programs (not the theory of	42B10
	computation or programming)	42D10
41 - 06	Proceedings, conferences, collections, etc.	107.15
41Axx	Approximations and expansions {For all approximation theory in	42B15
IIIIAA	the complex domain, see 30E05 and 30E10; for all trigonometric	42B20
		42B25
	approximation and interpolation, see $42A10$ and $42A15$; for	42B30
	numerical approximation, see 65Dxx}	
41A05	Interpolation [See also 42A15 and 65D05]	42B35
41A10	Approximation by polynomials {For approximation by trigonometric	42B37
111110	polynomials, see 42A10}	42B99
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41A15	Spline approximation	42C05
41A17	Inequalities in approximation (Bernstein, Jackson, Nikol'skiĭ-type	42000
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41A20	Approximation by rational functions	42C10
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41A25	Rate of convergence, degree of approximation	42C20
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41A28	Simultaneous approximation	42C25
41A29	Approximation with constraints	42C30
		42C40
41A30	Approximation by other special function classes	42C99
41A35	Approximation by operators (in particular, by integral operators)	
41A36	Approximation by positive operators	43-XX
41A40	Saturation	
		43 - 00
41A44	Best constants	10 00
41A45	Approximation by arbitrary linear expressions	
41A46	Approximation by arbitrary nonlinear expressions; widths and	43 - 01
41A46		$43-01 \\ 43-02$
	entropy	43 - 02
41A50	entropy Best approximation, Chebyshev systems	
$\begin{array}{c} 41A50\\ 41A52 \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation	43–02 43–03
41A50	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures	43 - 02
$\begin{array}{c} 41A50\\ 41A52 \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation	43-02 43-03 43-04
$\begin{array}{c} 41A50 \\ 41A52 \\ 41A55 \\ 41A55 \\ 41A58 \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)	43–02 43–03
41A50 41A52 41A55	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent,	43-02 43-03 43-04
41A50 41A52 41A55 41A58 41A60	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]	43-02 43-03 43-04 43-06
$\begin{array}{c} 41A50 \\ 41A52 \\ 41A55 \\ 41A55 \\ 41A58 \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one	43-02 43-03 43-04 43-06 43Axx
41A50 41A52 41A55 41A58 41A60	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]	43-02 43-03 43-04 43-06 43Axx 43A05
41A50 41A52 41A55 41A58 41A60	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section)	43-02 43-03 43-04 43-06 43Axx 43A05 43A07
41A50 41A52 41A55 41A58 41A60 41A63	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear	43-02 43-03 43-04 43-06 43Axx 43A05
41A50 41A52 41A55 41A58 41A60 41A63 41A65	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)	43-02 43-03 43-04 43-06 43Axx 43A05 43A07
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A65\\ 41A80\\ \end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas 	43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15
41A50 41A52 41A55 41A58 41A60 41A63 41A65	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)	43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section	43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20
41A50 41A52 41A55 41A58 41A60 41A63 41A63 41A65 41A80 41A99 42-XX	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES	43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, 	$\begin{array}{r} 43-02\\ 43-03\\ \hline\\ 43-04\\ \hline\\ 43-06\\ \hline\\ 43A05\\ \hline\\ 43A05\\ \hline\\ 43A07\\ \hline\\ 43A10\\ \hline\\ 43A15\\ \hline\\ 43A17\\ \hline\\ 43A20\\ \hline\\ 43A22\\ \hline\end{array}$
41A50 41A52 41A55 41A58 41A60 41A63 41A63 41A65 41A80 41A99 42–XX 42–00	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) 	43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20
41A50 41A52 41A55 41A58 41A60 41A63 41A63 41A65 41A80 41A99 42-XX	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, 	$\begin{array}{r} 43-02\\ 43-03\\ \hline\\ 43-04\\ \hline\\ 43-06\\ \hline\\ 43A05\\ \hline\\ 43A05\\ \hline\\ 43A07\\ \hline\\ 43A10\\ \hline\\ 43A15\\ \hline\\ 43A17\\ \hline\\ 43A20\\ \hline\\ 43A22\\ \hline\end{array}$
41A50 41A52 41A55 41A58 41A60 41A63 41A63 41A65 41A80 41A99 42–XX 42–00 42–01	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) 	43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20 43A22 43A25
41A50 41A52 41A55 41A58 41A60 41A63 41A63 41A65 41A80 41A99 42–XX 42–00 42–01 42–01 42–02	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)	$\begin{array}{r} 43-02\\ 43-03\\ \hline\\ 43-04\\ \hline\\ 43-06\\ \hline\\ 43A05\\ \hline\\ 43A05\\ \hline\\ 43A07\\ \hline\\ 43A10\\ \hline\\ 43A15\\ \hline\\ 43A17\\ \hline\\ 43A20\\ \hline\\ 43A22\\ \hline\end{array}$
41A50 41A52 41A55 41A58 41A60 41A63 41A63 41A65 41A80 41A99 42–XX 42–00 42–01	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number	$\begin{array}{c} 43-02\\ 43-03\\ \end{array}\\ 43-04\\ \end{array}\\ \begin{array}{c} 43-06\\ \\ 43-06\\ \\ 43A05\\ \\ 43A05\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \end{array}\\ \begin{array}{c} 43A25\\ \\ 43A30\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ \end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) 	$\begin{array}{c} 43-02\\ 43-03\\ \end{array}\\ \begin{array}{c} 43-04\\ \end{array}\\ \begin{array}{c} 43-06\\ \end{array}\\ \begin{array}{c} 43A05\\ \end{array}\\ \begin{array}{c} 43A05\\ \end{array}\\ \begin{array}{c} 43A07\\ \end{array}\\ \begin{array}{c} 43A10\\ \end{array}\\ \begin{array}{c} 43A15\\ \end{array}\\ \begin{array}{c} 43A17\\ \end{array}\\ \begin{array}{c} 43A20\\ \end{array}\\ \begin{array}{c} 43A22\\ \end{array}\\ \begin{array}{c} 43A25\\ \end{array}\\ \begin{array}{c} 43A30\\ \end{array}$ \end{array}
41A50 41A52 41A55 41A58 41A60 41A63 41A63 41A65 41A80 41A99 42–XX 42–00 42–01 42–01 42–02	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number	$\begin{array}{c} 43-02\\ 43-03\\ \end{array}\\ 43-04\\ \end{array}\\ \begin{array}{c} 43-06\\ \\ 43-06\\ \\ 43A05\\ \\ 43A05\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \end{array}\\ \begin{array}{c} 43A25\\ \\ 43A30\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ \end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) 	$\begin{array}{c} 43-02\\ 43-03\\ \end{array}\\ \begin{array}{c} 43-04\\ \end{array}\\ \begin{array}{c} 43-06\\ \end{array}\\ \begin{array}{c} 43A05\\ \end{array}\\ \begin{array}{c} 43A05\\ \end{array}\\ \begin{array}{c} 43A07\\ \end{array}\\ \begin{array}{c} 43A10\\ \end{array}\\ \begin{array}{c} 43A15\\ \end{array}\\ \begin{array}{c} 43A17\\ \end{array}\\ \begin{array}{c} 43A22\\ \end{array}\\ \begin{array}{c} 43A22\\ \end{array}\\ \begin{array}{c} 43A30\\ \end{array}\\ \begin{array}{c} 43A32\\ \end{array}\\ \begin{array}{c} 43A32\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-03\\ 42-04\\ \end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) 	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43Axx\\ \\ 43A05\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A40\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-04\\ 42-04\\ 42-06\end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. 	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43Axx\\ \\ 43A05\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A10\\ \\ 43A15\\ \\ 43A17\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A40\\ \\ 43A45\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A55\\ 41A58\\ 41A60\\ \\ 41A63\\ \\ 41A63\\ \\ 41A65\\ \\ 41A80\\ 41A99\\ \\ \textbf{42-VX}\\ 42-00\\ \\ 42-01\\ 42-02\\ 42-03\\ \\ 42-04\\ \\ 42-06\\ \\ \textbf{42Axx}\\ \end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable 	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43Axx\\ \\ 43A05\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A40\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ \\ 41A63\\ \\ 41A63\\ \\ 41A63\\ \\ 41A65\\ \\ 41A80\\ \\ 41A99\\ \\ 42-\mathbf{XX}\\ \\ 42-00\\ \\ 42-01\\ \\ 42-02\\ \\ 42-03\\ \\ 42-04\\ \\ 42-06\\ \\ \mathbf{42Axx}\\ \\ 42A05\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems	$\begin{array}{r} 43-02\\ 43-03\\ \hline\\ 43-04\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43A07\\ \hline\\ 43A07\\ \hline\\ 43A10\\ \hline\\ 43A15\\ \hline\\ 43A17\\ \hline\\ 43A20\\ \hline\\ 43A22\\ \hline\\ 43A22\\ \hline\\ 43A30\\ \hline\\ 43A32\\ \hline\\ 43A35\\ \hline\\ 43A40\\ \hline\\ 43A45\\ \hline\\ 43A46\\ \hline\end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A55\\ 41A58\\ 41A60\\ \\ 41A63\\ \\ 41A63\\ \\ 41A65\\ \\ 41A80\\ 41A99\\ \\ \textbf{42-VX}\\ 42-00\\ \\ 42-01\\ 42-02\\ 42-03\\ \\ 42-04\\ \\ 42-06\\ \\ \textbf{42Axx}\\ \end{array}$	 entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable 	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43Axx\\ \\ 43A05\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A10\\ \\ 43A15\\ \\ 43A17\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A40\\ \\ 43A45\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ \\ 41A63\\ \\ 41A63\\ \\ 41A63\\ \\ 41A65\\ \\ 41A80\\ \\ 41A99\\ \\ 42-\mathbf{XX}\\ \\ 42-00\\ \\ 42-01\\ \\ 42-02\\ \\ 42-03\\ \\ 42-04\\ \\ 42-06\\ \\ \mathbf{42Axx}\\ \\ 42A05\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43A07\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A46\\ \\ 43A50\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ \\ 41A63\\ \\ 41A63\\ \\ 41A63\\ \\ 41A65\\ \\ 41A80\\ \\ 41A99\\ \\ \textbf{42-XX}\\ \\ 42-00\\ \\ 42-01\\ \\ 42-02\\ \\ 42-03\\ \\ 42-04\\ \\ 42-06\\ \\ \textbf{42Axx}\\ \\ 42A05\\ \\ 42A10\\ \\ 42A15\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Trigonometric interpolation	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43A05\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A46\\ \\ 43A50\\ \\ 43A55\\ $
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ \\ 41A63\\ \\ 41A63\\ \\ 41A63\\ \\ 41A65\\ \\ 41A80\\ \\ 41A99\\ \\ \textbf{42-XX}\\ \\ 42-00\\ \\ 42-01\\ \\ 42-02\\ \\ 42-03\\ \\ 42-04\\ \\ 42-06\\ \\ \textbf{42Axx}\\ \\ 42A05\\ \\ 42A10\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Trigonometric interpolation Fourier coefficients, Fourier series of functions with special properties,	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43A07\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A46\\ \\ 43A50\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-03\\ 42-04\\ 42-04\\ 42-06\\ \textbf{42Axx}\\ 42A05\\ 42A10\\ 42A15\\ 42A16\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43A05\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A35\\ \\ 43A40\\ \\ 43A45\\ \\ 43A46\\ \\ 43A50\\ \\ 43A55\\ $
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ \\ 41A63\\ \\ 41A63\\ \\ 41A63\\ \\ 41A65\\ \\ 41A80\\ \\ 41A99\\ \\ \textbf{42-XX}\\ \\ 42-00\\ \\ 42-01\\ \\ 42-02\\ \\ 42-03\\ \\ 42-04\\ \\ 42-06\\ \\ \textbf{42Axx}\\ \\ 42A05\\ \\ 42A10\\ \\ 42A15\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Trigonometric approximation Trigonometric approximation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric	$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43Axx\\ 43A05\\ 43A07\\ 43A10\\ 43A15\\ 43A10\\ 43A15\\ 43A10\\ 43A22\\ 43A22\\ 43A22\\ 43A25\\ 43A30\\ 43A32\\ 43A35\\ 43A40\\ 43A45\\ 43A46\\ 43A55\\ 43A60\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-03\\ 42-04\\ 42-04\\ 42-06\\ \textbf{42Axx}\\ 42A05\\ 42A10\\ 42A15\\ 42A16\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43A05\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A46\\ \\ 43A50\\ \\ 43A55\\ $
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-03\\ 42-04\\ 42-04\\ 42-06\\ \textbf{42Axx}\\ 42A05\\ 42A10\\ 42A15\\ 42A16\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Trigonometric interpolation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric series	$\begin{array}{c} 43-02\\ 43-03\\ \hline\\ 43-04\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43A07\\ \hline\\ 43A07\\ \hline\\ 43A07\\ \hline\\ 43A10\\ \hline\\ 43A15\\ \hline\\ 43A17\\ \hline\\ 43A20\\ \hline\\ 43A22\\ \hline\\ 43A22\\ \hline\\ 43A30\\ \hline\\ 43A32\\ \hline\\ 43A35\\ \hline\\ 43A46\\ \hline\\ 43A55\\ \hline\\ 43A60\\ \hline\\ 43A62\\ \hline\end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-04\\ 42-04\\ 42-06\\ \textbf{42Axx}\\ 42A05\\ 42A10\\ 42A15\\ 42A16\\ 42A20\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Trigonometric interpolation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric series	$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43Axx\\ 43A05\\ 43A07\\ 43A10\\ 43A15\\ 43A10\\ 43A15\\ 43A10\\ 43A22\\ 43A22\\ 43A22\\ 43A25\\ 43A30\\ 43A32\\ 43A35\\ 43A40\\ 43A45\\ 43A46\\ 43A55\\ 43A60\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-04\\ 42-04\\ 42-06\\ \textbf{42Axx}\\ 42A05\\ 42A10\\ 42A15\\ 42A16\\ 42A20\\ 42A24\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric series Summability and absolute summability of Fourier and trigonometric series	$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43Axx\\ 43A05\\ 43A07\\ 43A10\\ 43A15\\ 43A10\\ 43A15\\ 43A17\\ 43A20\\ 43A22\\ 43A22\\ 43A25\\ 43A30\\ 43A32\\ 43A35\\ 43A40\\ 43A45\\ 43A46\\ 43A55\\ 43A46\\ 43A55\\ 43A60\\ 43A55\\ 43A65\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-04\\ 42-04\\ 42-06\\ \textbf{42Axx}\\ 42A05\\ 42A10\\ 42A15\\ 42A16\\ 42A20\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric interpolation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric series Summability and absolute summability of Fourier and trigonometric series Trigonometric series of special types (positive coefficients, monotonic	$\begin{array}{c} 43-02\\ 43-03\\ \hline\\ 43-04\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43A07\\ \hline\\ 43A07\\ \hline\\ 43A07\\ \hline\\ 43A10\\ \hline\\ 43A15\\ \hline\\ 43A17\\ \hline\\ 43A20\\ \hline\\ 43A22\\ \hline\\ 43A22\\ \hline\\ 43A30\\ \hline\\ 43A32\\ \hline\\ 43A35\\ \hline\\ 43A46\\ \hline\\ 43A55\\ \hline\\ 43A60\\ \hline\\ 43A62\\ \hline\end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-04\\ 42-04\\ 42-04\\ 42A05\\ 42A10\\ 42A15\\ 42A10\\ 42A15\\ 42A10\\ 42A20\\ 42A24\\ 42A32\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric series Summability and absolute summability of Fourier and trigonometric series Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A17\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A40\\ \\ 43A46\\ \\ 43A55\\ \\ 43A60\\ \\ \\ 43A62\\ \\ 43A65\\ \\ 43A70\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-04\\ 42-04\\ 42-06\\ \textbf{42Axx}\\ 42A05\\ 42A10\\ 42A15\\ 42A16\\ 42A20\\ 42A24\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric interpolation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric series Summability and absolute summability of Fourier and trigonometric series Trigonometric series of special types (positive coefficients, monotonic	$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43Axx\\ 43A05\\ 43A07\\ 43A10\\ 43A15\\ 43A10\\ 43A15\\ 43A17\\ 43A20\\ 43A22\\ 43A22\\ 43A25\\ 43A30\\ 43A32\\ 43A35\\ 43A40\\ 43A45\\ 43A46\\ 43A55\\ 43A46\\ 43A55\\ 43A60\\ 43A55\\ 43A65\\ \end{array}$
$\begin{array}{c} 41A50\\ 41A52\\ 41A55\\ 41A58\\ 41A60\\ 41A63\\ 41A63\\ 41A65\\ 41A80\\ 41A99\\ \textbf{42-XX}\\ 42-00\\ 42-01\\ 42-02\\ 42-03\\ 42-04\\ 42-04\\ 42-04\\ 42A05\\ 42A10\\ 42A15\\ 42A10\\ 42A15\\ 42A10\\ 42A20\\ 42A24\\ 42A32\\ \end{array}$	entropy Best approximation, Chebyshev systems Uniqueness of best approximation Approximate quadratures Series expansions (e.g. Taylor, Lidstone series, but not Fourier series) Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15] Multidimensional problems (should also be assigned at least one other classification number in this section) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Remainders in approximation formulas None of the above, but in this section HARMONIC ANALYSIS ON EUCLIDEAN SPACES General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Harmonic analysis in one variable Trigonometric polynomials, inequalities, extremal problems Trigonometric approximation Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30} Convergence and absolute convergence of Fourier and trigonometric series Summability and absolute summability of Fourier and trigonometric series Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)	$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43A07\\ \\ 43A07\\ \\ 43A10\\ \\ 43A15\\ \\ 43A17\\ \\ 43A20\\ \\ 43A22\\ \\ 43A22\\ \\ 43A22\\ \\ 43A30\\ \\ 43A32\\ \\ 43A35\\ \\ 43A40\\ \\ 43A46\\ \\ 43A55\\ \\ 43A60\\ \\ \\ 43A62\\ \\ 43A65\\ \\ 43A70\\ \end{array}$

42A63	Uniqueness of trigonometric expansions, uniqueness of Fourier
	expansions, Riemann theory, localization
42A65	Completeness of sets of functions
42A70	Trigonometric moment problems
42A75	Classical almost periodic functions, mean periodic functions
	[See also 43A60]
42A82	Positive definite functions
42A85	Convolution, factorization
42A99	None of the above, but in this section
42Bxx	Harmonic analysis in several variables {For automorphic theory, see
49005	mainly 11F30} Fourier series and coefficients
42B05	
42B08	Summability
42B10	Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42B15	Multipliers
42B13 42B20	Singular and oscillatory integrals (Calderón-Zygmund, etc.)
42B20 42B25	Maximal functions, Littlewood-Paley theory
$\begin{array}{c} 42\text{B}23\\ 42\text{B}30\end{array}$	H^p -spaces
$\begin{array}{c} 42\text{B}30\\ 42\text{B}35\end{array}$	Function spaces arising in harmonic analysis
$\begin{array}{c} 42\text{B}35\\ 42\text{B}37\end{array}$	Harmonic analysis and PDE [See also 35–XX]
42B37 42B99	None of the above, but in this section
42D99 42Cxx	Nontrigonometric harmonic analysis
42CXX 42C05	Orthogonal functions and polynomials, general theory
42005	[See also 33C45, 33C50, 33D45]
42C10	Fourier series in special orthogonal functions (Legendre polynomials,
42010	Walsh functions, etc.)
42C15	General harmonic expansions, frames
42C20	Other transformations of harmonic type
42C25	Uniqueness and localization for orthogonal series
42C30	Completeness of sets of functions
42C40	Wavelets and other special systems
42C99	None of the above, but in this section
43–XX	ABSTRACT HARMONIC ANALYSIS {For other analysis on
4 3 - A A	topological and Lie groups, see 22Exx}
43-00	General reference works (handbooks, dictionaries, bibliographies,
40 00	
	etc
43-01	etc.) Instructional exposition (textbooks, tutorial papers, etc.)
43-01 43-02	Instructional exposition (textbooks, tutorial papers, etc.)
43 - 02	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)
	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number
$\begin{array}{c} 43-02\\ 43-03 \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01)
43 - 02	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number
43-02 43-03 43-04	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming)
$\begin{array}{c} 43-02\\ 43-03 \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of
$\begin{array}{c} 43-02\\ 43-03\\ 43-04\\ 43-06\end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc.
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43-02 43-03 43-04 43-06 43Axx	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx}
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc.
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15	 Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Measure algebras on groups, semigroups, etc. L^p-spaces and other function spaces on groups, semigroups, etc.
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc.
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups,
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20 43A22	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20 43A22 43A25	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups
43-02 43-03 43-04 43-06 43Axx 43A05 43A07 43A10 43A15 43A17 43A20 43A22	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups
$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ \textbf{43-06}\\ \textbf{43A05}\\ 43A05\\ 43A07\\ 43A10\\ 43A15\\ 43A10\\ 43A15\\ 43A17\\ 43A20\\ 43A22\\ 43A22\\ 43A25\\ 43A30\\ \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43A05\\ 43A05\\ 43A07\\ 43A10\\ 43A15\\ 43A10\\ 43A15\\ 43A17\\ 43A20\\ 43A22\\ 43A22\\ 43A25\\ 43A30\\ 43A32\\ \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-05\\ \\ 43-07\\ \\ 43-10\\ \\ 43-15\\ \\ 43-15\\ \\ 43-15\\ \\ 43-25\\ \\ 43-25\\ \\ 43-35\\ \\ 43-35\\ \\ \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
$\begin{array}{r} 43-02\\ 43-03\\ \hline\\ 43-04\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43-06\\ \hline\\ 43A05\\ \hline\\ 43A05\\ \hline\\ 43A07\\ \hline\\ 43A10\\ \hline\\ 43A15\\ \hline\\ 43A10\\ \hline\\ 43A22\\ \hline\\ 43A22\\ \hline\\ 43A30\\ \hline\\ 43A32\\ \hline\\ 43A35\\ \hline\\ 43A40\\ \hline\end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc. Other transforms and operators of Fourier type Positive definite functions on groups, semigroups, etc. Character groups and dual objects
$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-26\\ \\ 43-26\\ \\ 43-26\\ \\ 43-26\\ \\ 43-26\\ \\ 43-25\\ \\ 43-26\\ \\ 43-35\\ \\ 43-35\\ \\ 43-46\\ \\ 43-45\\ \\ \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc. Other transforms and operators of Fourier type Positive definite functions on groups, semigroups, etc. Character groups and dual objects Spectral synthesis on groups, semigroups, etc.
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$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-16\\ 43$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc. Other transforms and operators of Fourier type Positive definite functions on groups, semigroups, etc. Character groups and dual objects Spectral synthesis on groups, semigroups, etc. Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
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$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-07\\ 43-06\\ 43-10\\ 43-10\\ 43-10\\ 43-10\\ 43-10\\ 43-22\\ 43-22\\ 43-25\\ 43-25\\ 43-35\\ 43-40\\ 43-35\\ 43-46\\ 43-55\\ 45$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc. Other transforms and operators of Fourier type Positive definite functions on groups, semigroups, etc. Character groups and dual objects Spectral synthesis on groups, semigroups, etc. Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.) Convergence of Fourier series and of inverse transforms Summability methods on groups, semigroups, etc. [See also 40J05]
$\begin{array}{c} 43-02\\ 43-03\\ \\ 43-04\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-06\\ \\ 43-07\\ \\ 43-07\\ \\ 43-07\\ \\ 43-10\\ \\ 43-15\\ \\ 43-17\\ \\ 43-20\\ \\ 43-22\\ \\ 43-22\\ \\ 43-25\\ \\ 43-35\\ \\ 43-35\\ \\ 43-45\\ \\ 43-46\\ \\ 43-50\\ \\ \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^{p} -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^{p} -theory L^{1} -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc. Other transforms and operators of Fourier type Positive definite functions on groups, semigroups, etc. Character groups and dual objects Spectral synthesis on groups, semigroups, etc. Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.) Convergence of Fourier series and of inverse transforms Summability methods on groups, semigroups, etc. [See also 40J05] Almost periodic functions on groups and semigroups and their
$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-07\\ 43-06\\ 43-10\\ 43-10\\ 43-10\\ 43-10\\ 43-10\\ 43-22\\ 43-22\\ 43-25\\ 43-25\\ 43-35\\ 43-40\\ 43-35\\ 43-46\\ 43-55\\ 45$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc. L^p -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^p -theory L^1 -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc. Other transforms and operators of Fourier type Positive definite functions on groups, semigroups, etc. Character groups and dual objects Spectral synthesis on groups, semigroups, etc. Special sets (thin sets, Kroneker sets, Helson sets, Ditkin sets, Sidon sets, etc.) Convergence of Fourier series and of inverse transforms Summability methods on groups, semigroups, etc. [See also 40J05] Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost
$\begin{array}{r} 43-02\\ 43-03\\ 43-04\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-06\\ 43-07\\ 43-06\\ 43-10\\ 43-10\\ 43-10\\ 43-10\\ 43-10\\ 43-22\\ 43-22\\ 43-25\\ 43-25\\ 43-35\\ 43-40\\ 43-35\\ 43-46\\ 43-55\\ 45$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx} Measures on groups and semigroups, etc. Means on groups, semigroups, etc.; amenable groups Measure algebras on groups, semigroups, etc. L^{p} -spaces and other function spaces on groups, semigroups, etc. Analysis on ordered groups, H^{p} -theory L^{1} -algebras on groups, semigroups, etc. Homomorphisms and multipliers of function spaces on groups, semigroups, etc. Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc. Other transforms and operators of Fourier type Positive definite functions on groups, semigroups, etc. Character groups and dual objects Spectral synthesis on groups, semigroups, etc. Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.) Convergence of Fourier series and of inverse transforms Summability methods on groups, semigroups, etc. [See also 40J05] Almost periodic functions on groups and semigroups and their

 $Conjugate\ functions,\ conjugate\ series,\ singular\ integrals$

Probabilistic methods

Lacunary series of trigonometric and other functions; Riesz products

- 43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
- 43A70 Analysis on specific locally compact and other abelian groups [See also 11R56, 22B05]
- 43A75 Analysis on specific compact groups
- $43A77 \qquad \text{Analysis on general compact groups}$
- 43A80 Analysis on other specific Lie groups [See also 22Exx]

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43A85	Analysis	on	homogeneous	spaces
101100	11101,010	011	moniogonoodo	spaces

S25

- Spherical functions [See also 22E45, 22E46, 33C55] 43A90
- 43A95 Categorical methods [See also 46Mxx]
- None of the above, but in this section 43A99
- 44-XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}
- 44 00General reference works (handbooks, dictionaries, bibliographies, etc.)
- 44 01Instructional exposition (textbooks, tutorial papers, etc.)
- 44 02Research exposition (monographs, survey articles)
- 44 03Historical (must also be assigned at least one classification number from Section 01)
- 44 04Explicit machine computation and programs (not the theory of computation or programming)
- Proceedings, conferences, collections, etc. 44 - 06
- 44Axx Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}
- 44A05General transforms [See also 42A38]
- 44A10 Laplace transform
- 44A12 Radon transform [See also 92C55]
- 44A15 Special transforms (Legendre, Hilbert, etc.)
- 44A20Transforms of special functions
- Multiple transforms 44A30
- 44A35Convolution
- 44A40 Calculus of Mikusiński and other operational calculi
- 44A45Classical operational calculus
- 44A55Discrete operational calculus
- 44A60 Moment problems
- 44A99None of the above, but in this section
- 45–XX **INTEGRAL EQUATIONS**
- 45 00General reference works (handbooks, dictionaries, bibliographies, etc.)
- 45 01Instructional exposition (textbooks, tutorial papers, etc.)
- Research exposition (monographs, survey articles) 45 - 02
- 45 03Historical (must also be assigned at least one classification number
- from Section 01) 45 - 04Explicit machine computation and programs (not the theory of
- computation or programming)
- 45 06Proceedings, conferences, collections, etc.
- 45Axx Linear integral equations 45A05Linear integral equations
- 45A99None of the above, but in this section
- Fredholm integral equations 45Bxx
- 45B05Fredholm integral equations
- 45B99None of the above, but in this section
- 45Cxx Eigenvalue problems [See also 34Lxx, 35Pxx, 45P05, 47A75]
- 45C05Eigenvalue problems [See also 34Lxx, 35Pxx, 45P05, 47A75]
- 45C99None of the above, but in this section
- 45Dxx Volterra integral equations [See also 34A12]
- 45D05Volterra integral equations [See also 34A12]
- 45D99None of the above, but in this section
- 45Exx Singular integral equations [See also 30E20, 30E25, 44A15, 44A35] 45E05Integral equations with kernels of Cauchy type [See also 35J15]
- 45E10Integral equations of the convolution type (Abel, Picard, Toeplitz
- and Wiener-Hopf type) [See also 47B35]

45E99None of the above, but in this section

- 45Fxx Systems of linear integral equations 45F05Systems of nonsingular linear integral equations
- 45F10Dual, triple, etc., integral and series equations
- 45F15Systems of singular linear integral equations
- 45F99None of the above, but in this section
- 45Gxx Nonlinear integral equations [See also 47H30, 47Jxx]
- 45G05Singular nonlinear integral equations
- Other nonlinear integral equations 45G10
- 45G15Systems of nonlinear integral equations
- 45G99None of the above, but in this section
- Miscellaneous special kernels [See also 44A15] 45Hxx Miscellaneous special kernels [See also 44A15] 45H05
- 45H99None of the above, but in this section
- 45Jxx Integro-ordinary differential equations [See also 34K05, 34K30, 47G20
- 45J05Integro-ordinary differential equations [See also 34K05, 34K30, 47G20
- 45J99None of the above, but in this section

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- 45Kxx Integro-partial differential equations [See also 34K30, 35R09, 35R10, 47G20
- 45K05Integro-partial differential equations [See also 34K30, 35R09, 35R10, 47G20]
- 45K99None of the above, but in this section
- 45Lxx Theoretical approximation of solutions {For numerical analysis, see **65Rxx**}
- 45L05Theoretical approximation of solutions {For numerical analysis, see 65Rxx
- 45L99None of the above, but in this section
- 45Mxx Qualitative behavior
- 45M05Asymptotics
- 45M10Stability theory
- 45M15Periodic solutions
- 45M20Positive solutions
- 45M99None of the above, but in this section
- 45Nxx Abstract integral equations, integral equations in abstract spaces
- 45N05Abstract integral equations, integral equations in abstract spaces
- 45N99None of the above, but in this section
- 45Pxx Integral operators [See also 47B38, 47G10]
- 45P05Integral operators [See also 47B38, 47G10]
- 45P99None of the above, but in this section
- 45Qxx **Inverse problems**
- 45Q05Inverse problems

46A08

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46Bxx

46B03

46B04

46B06

- 45Q99None of the above, but in this section
- 45Rxx Random integral equations [See also 60H20]
- 45R05Random integral equations [See also 60H20]
- None of the above, but in this section 45 R99
- FUNCTIONAL ANALYSIS {For manifolds modeled on topological 46-XX linear spaces, see 57Nxx, 58Bxx}
- 46 00General reference works (handbooks, dictionaries, bibliographies, etc.)
- 46 01Instructional exposition (textbooks, tutorial papers, etc.)
- 46 02Research exposition (monographs, survey articles)
- 46 03Historical (must also be assigned at least one classification number from Section 01)
- 46 04Explicit machine computation and programs (not the theory of computation or programming)
- 46 06Proceedings, conferences, collections, etc.
- Topological linear spaces and related structures {For function spaces, 46Axx see 46Exx}

Spaces determined by compactness or summability properties

Spaces defined by inductive or projective limits (LB, LF, etc.)

Not locally convex spaces (metrizable topological linear spaces,

spaces with a metric taking values in an ordered structure more

Other "topological" linear spaces (convergence spaces, ranked spaces,

Theorems of Hahn-Banach type; extension and lifting of functionals

Open mapping and closed graph theorems; completeness (including

approximation properties [See also 46B28, 46M05, 47L05, 47L20]

Ordered topological linear spaces, vector lattices [See also 06F20,

Compactness in topological linear spaces; angelic spaces, etc.

Convex sets in topological linear spaces; Choquet theory

Sequence spaces (including Köthe sequence spaces) [See also 46B45]

Saks spaces and their duals (strict topologies, mixed topologies, two-

Normed linear spaces and Banach spaces; Banach lattices {For

Isomorphic theory (including renorming) of Banach spaces

Asymptotic theory of Banach spaces [See also 52A23]

Bornologies and related structures; Mackey convergence, etc.

(nuclear spaces, Schwartz spaces, Montel spaces, etc.)

locally bounded spaces, quasi-Banach spaces, etc.)

Reflexivity and semi-reflexivity [See also 46B10]

Summability and bases [See also 46B15]

Graded Frechet spaces and tame operators

Topological invariants ((DN), (Ω) , etc.)

None of the above, but in this section

norm spaces, co-Saks spaces, etc.)

Isometric theory of Banach spaces

function spaces, see 46Exx}

Spaces of linear operators; topological tensor products;

46A03 General theory of locally convex spaces

[See also 46M40]

general than **R**, etc.)

B-, B_r -completeness)

and operators [See also 46M10]

Duality theory

46B40, 46B42

[See also 52A07]

Modular spaces

46A04 Locally convex Fréchet spaces and (DF)-spaces Barrelled spaces, bornological spaces

- 46B07Local theory of Banach spaces
- 46B08Ultraproduct techniques in Banach space theory [See also 46M07]
- 46B09Probabilistic methods in Banach space theory [See also 60Bxx]
- 46B10Duality and reflexivity [See also 46A25]
- 46B15Summability and bases [See also 46A35]
- 46B20Geometry and structure of normed linear spaces
- 46B22Radon-Nikodým, Kreĭn-Milman and related properties [See also 46G10]
- 46B25Classical Banach spaces in the general theory
- 46B26Nonseparable Banach spaces
- 46B28Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47L05, 47L20]
- 46B40Ordered normed spaces [See also 46A40, 46B42]
- 46B42Banach lattices [See also 46A40, 46B40]
- 46B45Banach sequence spaces [See also 46A45]
- 46B50Compactness in Banach (or normed) spaces
- 46B70Interpolation between normed linear spaces [See also 46M35]
- 46B80Nonlinear classification of Banach spaces; nonlinear quotients 46B85Embeddings of discrete metric spaces into Banach spaces; applications in topology and computer science [See also 05C12, 68Rxx
- 46B99None of the above, but in this section
- 46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see **46Exx**}
- 46C05Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
- 46C07Hilbert subspaces (= operator ranges); complementation (Aronszajn, de Branges, etc.) [See also 46B70, 46M35]
- 46C15Characterizations of Hilbert spaces
- 46C20Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [See also 47B50]
- 46C50Generalizations of inner products (semi-inner products, partial inner products, etc.)
- 46C99None of the above, but in this section
- 46Exx Linear function spaces and their duals [See also 30H05, 32A38, **46F05**] {For function algebras, see **46J10**}
- 46E05Lattices of continuous, differentiable or analytic functions
- 46E10 Topological linear spaces of continuous, differentiable or analytic functions
- 46E15Banach spaces of continuous, differentiable or analytic functions
- 46E20Hilbert spaces of continuous, differentiable or analytic functions
- Hilbert spaces with reproducing kernels (= [proper] functional 46E22Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [See also 47B32]
- 46E25Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15}
- 46E27Spaces of measures [See also 28A33, 46Gxx]
- Spaces of measurable functions (L^p -spaces, Orlicz spaces, Köthe 46E30function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
- 46E35Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
- 46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
- 46E40Spaces of vector- and operator-valued functions
- 46E50Spaces of differentiable or holomorphic functions on infinitedimensional spaces [See also 46G20, 46G25, 47H60] 46E99None of the above, but in this section
- 46Fxx Distributions, generalized functions, distribution spaces [See also 46T30]
- Topological linear spaces of test functions, distributions and 46F05ultradistributions [See also 46E10, 46E35]
- 46F10Operations with distributions
- 46F12Integral transforms in distribution spaces [See also 42–XX, 44–XX]
- 46F15Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58J15
- 46F20Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
- Distributions on infinite-dimensional spaces [See also 58C35] 46F25Generalized functions for nonlinear analysis (Rosinger, Colombeau, 46F30
- nonstandard, etc.) 46F99None of the above, but in this section
- Measures, integration, derivative, holomorphy (all involving infinite-46Gxx dimensional spaces) [See also 28-XX, 46Txx]
- 46G05Derivatives [See also 46T20, 58C20, 58C25]
- 46G10Vector-valued measures and integration [See also 28Bxx, 46B22] 46G12Measures and integration on abstract linear spaces [See also 28C20,
- 46T12] 46G15Functional analytic lifting theory [See also 28A51]

- 46G20Infinite-dimensional holomorphy [See also 32-XX, 46E50, 46T25, 58B12, 58C10 46G25(Spaces of) multilinear mappings, polynomials [See also 46E50, 46G20, 47H60] 46G99None of the above, but in this section 46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see **43A10, 43A20**} General theory of topological algebras
- 46H05
- 46H10Ideals and subalgebras
- 46H15Representations of topological algebras
- 46H20 Structure, classification of topological algebras 46H25Normed modules and Banach modules, topological modules (if not placed in 13-XX or 16-XX)
- 46H30Functional calculus in topological algebras [See also 47A60]
- 46H35Topological algebras of operators [See mainly 47Lxx]
- 46H40Automatic continuity
- 46 H70Nonassociative topological algebras [See also 46K70, 46L70]
- None of the above, but in this section 46H99
- 46Jxx Commutative Banach algebras and commutative topological algebras [See also 46E25]
- General theory of commutative topological algebras 46J05
- 46J10Banach algebras of continuous functions, function algebras [See also 46E25]
- 46J15Banach algebras of differentiable or analytic functions, H^p -spaces [See also 30H10, 32A35, 32A37, 32A38, 42B30]
- 46J20Ideals, maximal ideals, boundaries
- Representations of commutative topological algebras 46J25
- 46J30Subalgebras
- 46J40Structure, classification of commutative topological algebras
- 46J45Radical Banach algebras
- None of the above, but in this section 46J99
- Topological (rings and) algebras with an involution [See also 16W10] 46Kxx
- General theory of topological algebras with involution 46 K05
- $46 \mathrm{K10}$ Representations of topological algebras with involution
- 46 K15Hilbert algebras
- 46K50Nonselfadjoint (sub)algebras in algebras with involution Nonassociative topological algebras with an involution
- 46 K70[See also 46H70, 46L70]
- 46K99 None of the above, but in this section
- 46Lxx Selfadjoint operator algebras (C^* -algebras, von Neumann (W^* -) algebras, etc.) [See also 22D25, 47Lxx]
- 46L05General theory of C^* -algebras
- 46L06Tensor products of C^* -algebras
- 46L07Operator spaces and completely bounded maps [See also 47L25]
- 46L08 C^* -modules
- 46L09Free products of C^* -algebras
- 46L10General theory of von Neumann algebras
- 46L30 States

46L80

46L85

46L87

46L89

46L99

46Mxx

46M05

46M07

46M10

46M15

46M18

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- 46L35Classifications of C^* -algebras
- 46L36Classification of factors
- 46L37Subfactors and their classification
- 46L40Automorphisms
- Decomposition theory for C^* -algebras 46L45
- 46L51Noncommutative measure and integration
- 46L52Noncommutative function spaces
- 46L53Noncommutative probability and statistics
- 46L54Free probability and free operator algebras

[See also 58B32, 58B34, 58J22]

None of the above, but in this section

Ultraproducts [See also 46B08, 46S20]

- 46L55Noncommutative dynamical systems [See also 28Dxx, 37Kxx, 37Lxx, 54H20
- 46L57Derivations, dissipations and positive semigroups in C^* -algebras 46L60Applications of selfadjoint operator algebras to physics

K-theory and operator algebras (including cyclic theory)

Noncommutative topology [See also 58B32, 58B34, 58J22]

Noncommutative differential geometry [See also 58B32, 58B34, 58J22]

Other "noncommutative" mathematics based on C^* -algebra theory

Methods of category theory in functional analysis [See also 18-XX]

Categories, functors {For K-theory, EXT, etc., see 19K33, 46L80,

Homological methods (exact sequences, right inverses, lifting, etc.)

[See also 46N50, 46N55, 47L90, 81T05, 82B10, 82C10]

[See also 18F25, 19Kxx, 46M20, 55Rxx, 58J22]

Tensor products [See also 46A32, 46B28, 47A80]

Projective and injective objects [See also 46A22]

46L65Quantizations, deformations 46L70Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]

 $46M18, 46M20\}$

46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, cl.) [Soc also 14705, 16Fzc, 10Fzc, 32Czc, 32Czc, 46D3, 46M15, 47A6 47A6 46M35 Abstract interpolation of topological vector spaces [Soc also 4007] 47A6 46M35 Abstract interpolation of topological vector spaces [Soc also 4007] 47A6 46M30 Abstract interpolation of functional multiple programming, concentral and integral equations 47A6 46N10 Applications in probability theory and statistics 47A7 46N20 Applications in probability theory and statistics 47A7 46N30 Applications in probability theory and statistics 47A6 46N50 Applications in theory, but in this section 47A6 46N50 Applications in biology and other sciences 47D6 46N50 Applications in theory, but in this section 47D6 46S80 Punctional analysis is probabilistic metric linear spaces 47D8 46S90 Constructive functional analysis [See also 01276] 47B3 46S80 Punctional analysis in probabilistic metric linear spaces 47D8 47D9 Manifold of mappings 47D6 46S90 Nonstandard functional analysis [See also 01276] 47B3 46S90 Punctional analysis in probabilistic metric linear spaces 47D8 47D9 Manifold of mappings <t< th=""><th></th><th></th><th></th></t<>			
46A33 Abstract interpolation of topological vector spaces [See also 46170] 47A63 46A40 Indictive and projectives of functional analysis [See also 47A3] 47A64 46N20 Nicellanceus applications of functional analysis [See also 47Nx] 47A64 46N20 Applications of functional analysis [See also 65Acs] 47A64 46N20 Applications in numerical analysis [See also 65Acs] 47A7 46N20 Applications in numerical analysis [See also 65Acs] 47A8 46N20 Applications in topology and other sciences 47D6 46N30 Applications in biology and other sciences 47D6 46N40 Punctional analysis (See also 1255, 32P06] 47E44 46N40 Punctional analysis in probability theory [See also 125, 32P06] 47B43 46N40 Punctional analysis in probability theory [See also 125, 32P06] 47B43 46N40 Punctional analysis in probability theory [See also 125, 32P06] 47B43 46S50 Punctional analysis [See also 03P16] 47B43 46S50 Punctional analysis [See also 03P16] 47B43 46S50 Punctional analysis [See also 13A54, 57N20, 58D5x, 55D5x] 47B33 46T20 Constractive firmetional analysis [See also 25Cx	46M20	etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15,	47A6
40440 Inductive and projective limits [See also 45.13] 47.05 40509 None of the above, but in this section 47.06 40510 Applications in optimization, convex analysis, mathematical programming, conomics 47.06 40510 Applications in optimization, convex analysis, mathematical 47.06 47.06 40510 Applications in quantum physics 47.06 40510 Applications in transcripture analysis [See also 65.1cc] 47.06 40510 Applications in statistical physics 47.06 405100 Applications in biology and other sciences 47.06 405200 Applications in biology and other sciences 47.06 405300 Constructive functional analysis [See also 12.25, 32P.05] 47.06 405300 Constructive functional analysis [See also 03.162.00] 47.01 405300 Functional analysis (See also 03.162.00] 47.02 405300 Functional analysis (See also 03.162.00] 47.02 405300 Functional analysis (See also 03.162.00] 47.03 405300 Functional analysis (See also 03.162.00] 47.03 405300 Functional analysis (See also 0.172.01 47.02 405400 Applic	403 505		
40099 None of the above, but in this section 47.46 405xx Miscellanceus applications of functional analysis [See also 47.Nx] 47.46 40502 Applications to differential and integral equations 47.47 40503 Applications in probability theory and statistics 47.47 40503 Applications in probability theory and statistics 47.48 40503 Applications in inducing analysis [See also 05.52] 47.83 40503 Applications in inducing analysis [See also 05.52] 47.83 40503 Applications in biology and other sciences 47.90 40504 Punctional analysis (See also 03.76) 47.81 40505 Functional analysis (See also 03.76) 47.81 40504 Functional analysis in probabilistic metric linear spaces 47.82 40505 Functional analysis in probabilistic metric linear spaces 47.82 40504 Punctional analysis in probabilistic metric linear spaces 47.83 40505 Functional analysis (See also 36.02, x, 57.82, 35.82, 47.13 47.83 40504 Maxiloda of mappings 47.13 47.14 40710 Mainolad of mappings 47.12 47.14 47.34 47			
40Kx Misedianeous applications of functional analysis [See also 47Nxx] 47A6 40K10 Applications in probability theory and statistics 47A6 40K20 Applications in probability theory and statistics 47A7 40K30 Applications in probability theory and statistics 47A8 40K50 Applications in briedog: and other sciences 47B9 40K50 Applications in probability theory and statistical physics 47B9 40K50 Applications in probability theory and statistical physics 47B9 40K50 Applications in and analysis [See also 03103] 47B1 40K50 Applications and analysis [See also 03104] 47B3 40K50 Applications and analysis [See also 045C0] 47B3 40K50 Applications and analysis [See also 045C0]	46M40		47A6
40Kx Misedianeous applications of functional analysis [See also 47Nxx] 47A6 40K10 Applications in probability theory and statistics 47A6 40K20 Applications in probability theory and statistics 47A7 40K30 Applications in probability theory and statistics 47A8 40K50 Applications in briedog: and other sciences 47B9 40K50 Applications in probability theory and statistical physics 47B9 40K50 Applications in probability theory and statistical physics 47B9 40K50 Applications in and analysis [See also 03103] 47B1 40K50 Applications and analysis [See also 03104] 47B3 40K50 Applications and analysis [See also 045C0] 47B3 40K50 Applications and analysis [See also 045C0]	46M99	None of the above, but in this section	
46510 Applications in optimization, convex analysis, mathematical 47.46 46520 Applications to differential and integral equations 47.47 46530 Applications in probability theory and statistics 47.47 46530 Applications in quantum physics 47.83 465555 Applications in statistical physics 47.83 465565 Applications in this section 475.83 465505 Applications in interional analysis [See also 03405] 475.93 465507 Cuber (nonclassical) types of functional analysis [See also 03405] 475.93 465507 Functional analysis [See also 0347.2] 475.93 465507 Functional analysis [See also 0347.2] 475.93 465507 Functional analysis [See also 0347.2] 475.93 46508 Functional analysis [See also 047.2] 475.23 46509 Functional analysis [See also 047.2] 475.33 46509 Functional analysis [See also 054.2] 475.33 <	46Nxx		47A6′
programming, economics 47.77 46520 Applications to in probability theory and statistics 47.77 46530 Applications in mumerical analysis [See also 65.Ex] 47.88 46535 Applications in statistical physics 47.88 46536 Applications in statistical physics 47.89 46536 Applications in statistical physics 47.89 46536 Applications in statistical physics 47.89 46536 None of the above, but in this section 47.80 46530 Nonstandard functional analysis [See also 03160] 47.81 46530 Nonstandard functional analysis [See also 031760] 47.81 46530 Nonstandard functional analysis [See also 031760] 47.82 46530 Nonstandard functional analysis [See also 031760] 47.83 46530 Nonine of the above, but in this section 47.83 46710 Manifolds of mappings 46712 47.83 46712 Masimo (Ganzsain, egludrical, etc.) and integrals (Feyrman, path, Frestel, etc.) on manifolds [See also 53.64.05.3] 47.83 46720 Masimo (Ganzsain, egludrical, etc.) and integrals (Feyrman, path, Frested, etc.)			
46820 Applications to differential and integral equations 47.47 46830 Applications in probability theory and statistics 47.47 46850 Applications in guantum physics 47.89 468505 Applications in statistical physics 47.89 468507 Other (nunclassical) types of functional analysis [See also 475x2] 47.00 468507 Other (nunclassical) types of functional analysis [See also 012/25, 321/05] 47.01 468507 Outer (nunclossical) types of functional analysis [See also 03760] 47.01 468508 Functional analysis [See also 03760] 47.01 468509 Nons of the above, but in this section 47.02 468500 Functional analysis in superpareneos (supermanifolds) or graded spaces 17.02 468501 Functional analysis [See also 037.02, 57.020, 581.02, 47.03 47.03 46702 Continuous and differentiable maps [See also 46.02] 47.03 46712 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Frenel, etc.) on anailods [See also 46.02] 47.03 46720 Continuous and generalized functions on nonlinear spaces 47.03 47.20 General reference works (handbooks, dictionaries, bibliographites, etc.) 47.04 <t< td=""><td>101110</td><td></td><td>11100</td></t<>	101110		11100
44630 Applications in probability theory and statistics 47.A3 46530 Applications in quantum physics 47.A8 46555 Applications in statistical physics 47.B0 46555 Applications in statistical physics 47.B0 46557 Applications in statistical physics 47.B0 46557 Applications in statistical physics 47.B0 46558 Other (non-Cascial) space of functional analysis [See also 04.B10.5] 47.B0 46590 Nonstandard functional analysis [See also 04.B10.5] 47.B1 46500 Constructive functional analysis [See also 04.B10.5] 47.B3 46501 Constructive functional analysis [See also 04.B10.5] 47.B3 46502 Functional analysis on superspaces (superspatiol) or graded spaces 58.82 46503 Monihout functional analysis [See also 34.S0.2] 47.B3 46704 Functional analysis [See also 34.S0.2] 47.B3 46717 Monihout functional analysis [See also 46.C0.2] 47.B3 46710 Monihout of mappings 47.B3 46712 Monihout of mappings 47.B3 46712 Monihout of mappings 47.B3 46712	461100		
40400 Applications in quantum physics 47.88 40550 Applications in statistical physics 47.89 40500 Applications in statistical physics 47.89 40500 Applications in biology and other sciences 47.09 40500 Phile (nonchascial) types of functional analysis [See also 12/25, 22/203] 47.00 40520 Ditar (nonchascial) types of functional analysis [See also 03/20] 47.01 40530 Constructive functional analysis [See also 03/20] 47.01 40540 Punctional analysis on superspaces (supermanifolds) or graded spaces 47.02 40550 Punctional analysis on superspaces (supermanifolds) or graded spaces 47.03 40510 Punctional analysis [See also 23.4xx, 47.1xx, 56.1xx, 50.1x] 47.03 40510 Non inter functional manifolds [See also 46.0x] 47.03 40710 Manifolds of mappings 47.03 40712 Continuous and differentiable maps [See also 46.02] 47.03 407120 Continuous and generalized functions on nonlinear spaces 47.33 40720 Continuous and generalized functions on nonlinear spaces 47.33 40720 Content reference works (fanaldbooks, dictionaries, bibliographics, etc.)			
46550 Applications in statistical physics 47.80 46555 Applications in biology and other sciences 47.80 46560 Applications in statistical physics 47.80 46575 Applications in biology and other sciences 47.80 46580 None of the above, but in this section 47.80 46581 Functional analysis [See also 02125, 527.05] 47.11 46583 Constructive functional analysis [See also 02172] 47.12 46580 Nonlineer functional analysis [See also 02172] 47.12 46580 Nonlineer functional analysis [See also 03170] 47.12 46590 None of the above, but in this section 47.12 46710 Manifolds of mappings 47.12 47.12 46710 Measure (anassin, cylindrical, etc.) and integrals (Forgmun, path, Frencel, etc.) on manifolds [See also 04.005] 47.13 46723 Holiomorphic maps [See also 16.20] <td< td=""><td>46N30</td><td>Applications in probability theory and statistics</td><td>47A7</td></td<>	46N30	Applications in probability theory and statistics	47A7
46555 Applications in statistical physics 47780 46560 Applications in biology and other sciences 47780 46500 Duter (nonclassical) types of functional analysis [See also 12/25, 32/105] 47180 46500 Punctional analysis (See also 03/27) 47180 46500 Constructive functional analysis [See also 03/27) 47191 46500 Constructive functional analysis [See also 03/27) 47123 46500 Functional analysis on superspaces (supermanifolds) or graded spaces 47523 46500 Functional analysis on superspaces (supermanifolds) or graded spaces 4753 46701 Infinite-dimensional manifolds [See also 047152, 47185, 580555, 581053 47133 46702 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Presnel, etc.) on manifolds [See also 24525, 56102, 47183 47134 47110 Manifolds of mappings 47134 47144 47120 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Presnel, etc.) on manifolds [See also 2525, 7612, 60-X3] 47134 47120 Measure (Gaussian, cylindrical, etc.) and integrals (Houldrical, Houldrical, Houldric	46N40	Applications in numerical analysis [See also 65Jxx]	47A8
44655 Applications in statistical physics 478:0 46560 Applications in biology and other sciences 478:0 46500 Duter (nonclassical) types of functional analysis [See also 12125, 321:05] 471:0 46500 Functional analysis (See also 0.12125, 321:05] 471:0 46500 Constructive functional analysis [See also 0.12125, 321:05] 471:1 46500 Constructive functional analysis [See also 0.12125, 321:05] 471:1 46500 Punctional analysis on superspaces (supermanifolds) or graded spaces 475:3 46500 Functional analysis (See also 0.111:0, 471:1, 471:1, 580:	46N50	Applications in quantum physics	47A9
46800 Applications in biology and other sciences 4720 46800 Other (nonclassical) types of functional analysis [See also 475xx] 4700 46810 Functional analysis (See also 01215, 32P05) 47514 46820 Nonstandard functional analysis [See also 03960] 47514 46830 Constructive functional analysis [See also 03960] 47524 46840 Functional analysis (See also 03960) 47524 46850 Functional analysis (See also 03960) 47523 46850 Functional analysis (See also 03760) 47523 46860 Functional analysis (See also 04714x, 451xx, 550x, 580x) 47533 46707 Noninoer functional analysis [See also 46714x, 451xx, 550x, 580x] 47533 46710 Manifolds of mappings 47533 46711 Manifolds of mappings 47533 467120 Continuous and differentiable maps [See also 46705] 47533 477200 Continuous and eneralized functions on nonlinear spaces 47534 477001 General reference works (handbooks, dictionaries, bibliographies, etc.) 47544 47700 Thetrational exposition (textbooks, tutorial papers, etc.) 47544 47004 Fustional (manographs, survey articles) 47644 4704 Research exposition (nonographs, survey articles) 47644 </td <td></td> <td></td> <td></td>			
46899 None of the above, but in this section 4750 468xx Other (nonelassical) types of functional analysis [See also 475x] 4750 46810 Functional analysis (See also 03105) 4751 46820 Nonstandard functional analysis [See also 03105) 4751 46830 Funzz functional analysis (See also 03176) 4752 46830 Funzz functional analysis (See also 03172) 4752 46850 Functional analysis on superspaces (supermanifolds) or graded spaces 4753 46900 None of the above, but in this section 4753 46710 Monifolds of mappings 4763 46712 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Presuel, etc.) on manifolds [See also 03CS, 46612, 60-XX] 4753 46720 Continuous and generalized functions on nonlinear spaces 4753 46721 Holomorphic maps [See also 46020] 4713 46723 Holomorphic maps [See also 46126] 4713 47-00 General reference works (handbools, dictionaries, bibliographics, etc.) 4754 47-01 Instructional caposition (textbooks, tutorial papers, etc.) 4754 47-02 Research exposition (monographs, survey articles) 4754			
465xx Other (nonchassical) types of functional analysis [See also 12:05, 32:P05] 4730 46510 Functional analysis [See also 03:P05] 4781 46530 Constructive functional analysis [See also 03:P06] 4781 46530 Constructive functional analysis [See also 03:P06] 4782 46550 Functional analysis in probabilistic metric linear spaces 4783 46560 Functional analysis in probabilistic metric linear spaces 4783 46700 Noninear functional analysis [See also 03:A0x, 57N20, 58Dxx] 4773 467105 Infinite-dimensional manifolds [See also 53Axx, 57N20, 58Dxx] 47733 467105 Manifolds of mappings 4783 467110 Manifolds of mappings 4783 467120 Continuous and differentiable maps [See also 46:C05] 47133 467120 Continuous and differentiable maps [See also 46:C05] 47134 47733 Distributions and generalized functions on nonlinear spaces 47134 47790 None of the above, but in this section 47134 477-0X OPERATOR THEORY 4734 477-02 Research exposition (textbooks, tutorial papers, etc.) 47144 477-04 Resear			47B0
46810 Functional analysis [See also 03105] 4711 46820 Nonstandard functional analysis [See also 03105] 47811 46830 Constructive functional analysis [See also 03105] 47811 46850 Functional analysis [See also 03720] 47823 46850 Functional analysis [See also 03712] 47824 46850 Functional analysis [See also 03712] 47824 46850 Functional analysis [See also 03712] 47833 46850 None of the above, but in this section 4733 46710 Manifolds of mappings 46713 467110 Manifolds of mappings 46713 467121 Measure (Gaussian, cylindrical, etc.) and integrals (Peynman, path, Presnel, etc.) on manifolds [See also 28Cxx, 46G12, 60-XX] 47133 467120 Measure (Gaussian, cylindrical, etc.) 47134 467120 Mone of the above, but in this section 47134 467120 Mone of the above, but in this section 47134 47-00 General reference works (handbooks, dictionaries, bibliographies, etc.) 47144 47-01 Instructional explorition (workpacks, strucy articles) 47194 47-02 Research exposition (monographs, surve			
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	nonquasidiagonal operators
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47A99	None of the above, but in this section
47Bxx	Special classes of linear operators
47B06	Riesz operators; eigenvalue distributions; approximation numbers, s-
11200	numbers, Kolmogorov numbers, entropy numbers, etc. of operators
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47B07	
47B10	Operators belonging to operator ideals (nuclear, <i>p</i> -summing, in the
	Schatten-von Neumann classes, etc.) [See also 47L20]
47B15	
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47B20	Subnormal operators, hyponormal operators, etc.
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	Branges, de Branges-Rovnyak, and other structured spaces)
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	[See also $45P05$, $47G10$ for other integral operators; see also $32A25$,
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47B36	Jacobi (tridiagonal) operators (matrices) and generalizations
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47B39	Difference operators [See also 39A70]
47B40	Spectral operators, decomposable operators, well-bounded operators,
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47B99	None of the above, but in this section Individual linear operators as elements of algebraic systems
47B99 47Cxx 47C05	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras
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47B99 47Cxx 47C05 47C10 47C15	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras
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47B99 47Cxx 47C05 47C10 47C15	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and
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47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
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47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D05 47D05	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30]
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30]
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D05 47D05	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30]
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D05 47D06 47D07	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx}
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D06 47D07	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D05 47D06 47D07	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D05 47D08 47D08 47D08	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10]
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D06 47D07 47D08 47D08 47D09 47D60	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] C-semigroups, regularized semigroups
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D05 47D08 47D08 47D09	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] C-semigroups, regularized semigroups
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D05 47D05 47D06 47D07 47D08 47D08 47D08	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] C-semigroups, regularized semigroups
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D03 47D06 47D09 47D60 47D62 47D99	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in *-algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] C-semigroups, regularized semigroups None of the above, but in this section
47B99 47Cxx 47C05 47C10 47C15 47C99 47D03 47D03 47D03 47D06 47D07 47D08 47D08 47D09 47D62 47D69 47D62 47D99 47Exx	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>C</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx]
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D03 47D06 47D09 47D60 47D62 47D99	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>*</i>-algebras Operators in <i>C*</i>- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] (should also
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>C</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators (For nonlinear operators, see 47H20; see also 20M20) One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] (should also be assigned at least one other classification number in section 47)
47B99 47Cxx 47C05 47C10 47C15 47C99 47D03 47D03 47D03 47D06 47D07 47D08 47D08 47D09 47D62 47D69 47D62 47D99 47Exx	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>C</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators (For nonlinear operators, see 47H20; see also 20M20) One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] (should also be assigned at least one other classification number in section 47)
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D06 47D07 47D08 47D08 47D08 47D09 47D60 47D62 47D99 47Exx 47E99	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in C*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] C-semigroups, regularized semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] (should also be assigned at least one other classification number in section 47)
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D06 47D07 47D08 47D08 47D09 47D60 47D62 47D99 47Exx 47E99 47Fxx	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>c</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups Integrated semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] (should also be assigned at least one other classification number in section 47) None of the above, but in this section
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D06 47D07 47D08 47D08 47D08 47D09 47D60 47D62 47D99 47Exx 47E99	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>C</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups Integrated semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] (should also be assigned at least one other classification number in section 47) None of the above, but in this section Partial differential operators [See also 35Pxx, 58Jxx] (should also be
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D03 47D03 47D03 47D03 47D05 47D09 47D60 47D62 47D99 47Exx 47E05 47E99 47Fxx 47F05	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>C</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 58Jxx] Partial differential operators [See also 35Pxx, 58Jxx] Partial differential operators [See also 35Pxx, 58Jxx]
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D06 47D07 47D08 47D08 47D09 47D60 47D62 47D99 47Exx 47E99 47Fxx	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>C</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups Integrated semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 58Jxx] Partial differential operators [See also 35Pxx, 58Jxx] Partial differential operators [See also 35Pxx, 58Jxx]
47B99 47Cxx 47C05 47C10 47C15 47C99 47Dxx 47D03 47D03 47D03 47D03 47D03 47D03 47D05 47D09 47D60 47D62 47D99 47Exx 47E05 47E99 47Fxx 47F05	 None of the above, but in this section Individual linear operators as elements of algebraic systems Operators in algebras Operators in <i>C</i>*- or von Neumann algebras None of the above, but in this section Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators, their generalizations and applications Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20} One-parameter semigroups and linear evolution equations [See also 34G10, 34K30] Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx} Schrödinger and Feynman-Kac semigroups Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10] <i>C</i>-semigroups, regularized semigroups None of the above, but in this section Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 34Lxx] Ordinary differential operators [See also 34Bxx, 58Jxx] Partial differential operators [See also 35Pxx, 58Jxx] Partial differential operators [See also 35Pxx, 58Jxx] None of the above, but in this section

- [See also 58Jxx] 10
 - Integral operators [See also 45P05] Integro-differential operators [See also 34K30, 35R09, 35R10, 45Jxx, 2045Kxx]
 - Pseudodifferential operators [See also 35Sxx, 58Jxx] 47G30

47N99

None of the above, but in this section

47Sxx

47S10

47S20

47S30

47S40

47S50

47S99

49-XX

47G40	Potential operators [See also 31–XX]
47G99	None of the above, but in this section
47Hxx	Nonlinear operators and their properties {For global and geometric aspects, see 49J53, 58–XX, especially 58Cxx}
47 H04	Set-valued operators [See also 28B20, 54C60, 58C06]
47H05	Monotone operators and generalizations
47H06	Accretive operators, dissipative operators, etc.
47H07	Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
47H08	Measures of noncompactness and condensing mappings, K-set
	contractions, etc.
47H09	Contraction-type mappings, nonexpansive mappings, A -proper
471110	mappings, etc.
47H10 47H11	Fixed-point theorems [See also 37C25, 54H25, 55M20, 58C30] Degree theory [See also 55M25, 58C30]
47H14	Perturbations of nonlinear operators [See also 47A55, 58J37, 70H09,
	70K60, 81Q15]
47H20	Semigroups of nonlinear operators [See also 37L05, 47J35, 54H15,
47H25	58D07] Nonlinear ergodic theorems [See also 28Dxx, 37Axx, 47A35]
47H20 47H30	Particular nonlinear operators (superposition, Hammerstein,
	Nemytskiĭ, Uryson, etc.) [See also 45Gxx, 45P05]
47H40	Random operators [See also 47B80, 60H25]
47H60 47H00	Multilinear and polynomial operators [See also 46G25]
47H99 47Jxx	None of the above, but in this section Equations and inequalities involving nonlinear operators
_ 10 AA	[See also 46Txx] {For global and geometric aspects, see 58–XX}
47J05	Equations involving nonlinear operators (general) [See also 47H10,
47 100	47J25] Narlingen ill neged problems [See also 25D25, 47A52, 65E22, 65J20
47J06	Nonlinear ill-posed problems [See also 35R25, 47A52, 65F22, 65J20, 65L08, 65M30, 65R30]
47J07	Abstract inverse mapping and implicit function theorems
	[See also $46T20$ and $58C15$]
47J10	Nonlinear spectral theory, nonlinear eigenvalue problems
47J15	[See also 49R05] Abstract bifurcation theory [See also 34C23, 37Gxx, 58E07, 58E09]
47J20	Variational and other types of inequalities involving nonlinear
	operators (general) [See also 49J40]
47J22	Variational and other types of inclusions [See also 34A60, 49J21,
47 195	49K21] Iterative precedures [See also 65115]
47J25 47J30	Iterative procedures [See also 65J15] Variational methods [See also 58Exx]
47J35	Nonlinear evolution equations [See also 34G20, 35K90, 35L90, 35Qxx,
	35R20, 37Kxx, 37Lxx, 47H20, 58D25]
47J40	Equations with hysteresis operators [See also 34C55, 74N30]
47J99 47Lxx	None of the above, but in this section Linear spaces and algebras of operators [See also 46Lxx]
47L05	Linear spaces of operators [See also 46A32 and 46B28]
47L07	Convex sets and cones of operators [See also 46A55]
47L10	Algebras of operators on Banach spaces and other topological linear
47L15	spaces Operator algebras with symbol structure
47L10 47L20	Operator ideals [See also 47B10]
47L22	Ideals of polynomials and of multilinear mappings
47L25	Operator spaces (= matricially normed spaces) [See also $46L07$]
47L30 47L35	Abstract operator algebras on Hilbert spaces Nest algebras, CSL algebras
47L35 47L40	Limit algebras, subalgebras of C^* -algebras
47L45	Dual algebras; weakly closed singly generated operator algebras
47L50	Dual spaces of operator algebras
47L55 47L60	Representations of (nonselfadjoint) operator algebras
47L60 47L65	Algebras of unbounded operators; partial algebras of operators Crossed product algebras (analytic crossed products)
47L70	Nonassociative nonselfadjoint operator algebras
47L75	Other nonselfadjoint operator algebras
47L80	Algebras of specific types of operators (Toeplitz, integral,
47L90	pseudodifferential, etc.) Applications of operator algebras to physics
47L90 47L99	None of the above, but in this section
47Nxx	Miscellaneous applications of operator theory [See also 46Nxx]
47N10	Applications in optimization, convex analysis, mathematical
47N00	programming, economics
47N20 47N30	Applications to differential and integral equations Applications in probability theory and statistics
47N30 47N40	Applications in probability theory and statistics Applications in numerical analysis [See also 65Jxx]
47N50	Applications in the physical sciences
47N60	Applications in chemistry and life sciences
47N70 47N99	Applications in systems theory, circuits, and control theory None of the above, but in this section

19–XX	CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 34K35, 65Kxx, 90Cxx, 93-XX]
49-00	General reference works (handbooks, dictionaries, bibliographies, etc.)
49 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
49-02	Research exposition (monographs, survey articles)
49-03	Historical (must also be assigned at least one classification number from Section 01)
49-04	Explicit machine computation and programs (not the theory of computation or programming)
49-06	Proceedings, conferences, collections, etc.
49Jxx	Existence theories
49J05	Free problems in one independent variable
49J10	Free problems in two or more independent variables
49J15	Optimal control problems involving ordinary differential equations
49J20	Optimal control problems involving partial differential equations
49J21	Optimal control problems involving relations other than differential equations
49J27	Problems in abstract spaces [See also 90C48, 93C25]
49J30	Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
49J35	Minimax problems
49J40	Variational methods including variational inequalities [See also 47J20]
49J45	Methods involving semicontinuity and convergence; relaxation
49J50	Fréchet and Gateaux differentiability [See also 46G05, 58C20]
49J52	Nonsmooth analysis [See also 46G05, 58C50, 90C56]
49J53	Set-valued and variational analysis [See also 28B20, 47H04, 54C60, 58C06]
49J55	Problems involving randomness [See also 93E20]
49J99	None of the above, but in this section
49Kxx	Optimality conditions
$49 \mathrm{K} 05$	Free problems in one independent variable
49 K 10	Free problems in two or more independent variables
$49 \mathrm{K} 15$	Problems involving ordinary differential equations
49K20	Problems involving partial differential equations
49K21	Problems involving relations other than differential equations
49K27	Problems in abstract spaces [See also 90C48, 93C25]
49K30	Optimal solutions belonging to restricted classes
49K35	Minimax problems
49K40	Sensitivity, stability, well-posedness [See also 90C31]
49K45	Problems involving randomness [See also 93E20]
49K99	None of the above, but in this section
49Lxx	Hamilton-Jacobi theories, including dynamic programming
49L20	Dynamic programming method
49L25	Viscosity solutions
49L99	None of the above, but in this section
49Mxx	Numerical methods [See also 90Cxx, 65Kxx]
49M05	Methods based on necessary conditions
49M15	Newton-type methods
49M20	Methods of relaxation type
49M25	Discrete approximations
49M27	Decomposition methods
49M29	Methods involving duality
49M30	Other methods

Other (nonclassical) types of operator theory [See also 46Sxx]

Archimedean operator theory

Nonstandard operator theory [See also 03H05]

Constructive operator theory [See also 03F60]

Fuzzy operator theory [See also 03E72]

None of the above, but in this section

Operator theory over fields other than \mathbf{R}, \mathbf{C} or the quaternions; non-

Operator theory in probabilistic metric linear spaces [See also 54E70]

- Methods of nonlinear programming type [See also 90C30, 65Kxx] 49M37
- 49M99None of the above, but in this section
- Miscellaneous topics 49Nxx
- Linear optimal control problems [See also 93C05] 49N05
- 49N10Linear-quadratic problems
- 49N15Duality theory
- 49N20Periodic optimization
- 49N25Impulsive optimal control problems
- Problems with incomplete information [See also 93C41] 49N30
- Optimal feedback synthesis [See also 93B52] 49N35
- 49N45Inverse problems
- 49N60Regularity of solutions
- Differential games 49N70
- 49N75Pursuit and evasion games
- 49N90 Applications of optimal control and differential games [See also 90C90, 93C95]
- None of the above, but in this section 49N99

[Source Date: Monday 12 October 2009 21:56]

49Qxx	Manifolds [See also 58Exx]	51Gxx
49Q05	Minimal surfaces [See also 53A10, 58E12]	51G05
49Q10	Optimization of shapes other than minimal surfaces [See also 90C90]	51G99
49Q12	Sensitivity analysis	51Hxx
49Q12 49Q15	Geometric measure and integration theory, integral and normal	51H05
49Q10		
10000	currents [See also 28A75, 32C30, 58A25, 58C35]	51H10
49Q20	Variational problems in a geometric measure-theoretic setting	51H15
49Q99	None of the above, but in this section	51 H20
49Rxx	Variational methods for eigenvalues of operators [See also 47A75]	51H25
49R05	Variational methods for eigenvalues of operators [See also 47A75]	51H30
	(should also be assigned at least one other classification number in	51H99
	Section 49)	51Jxx
400.00		
49R99	None of the above, but in this section	51J05
49Sxx	Variational principles of physics	51J10
49S05	Variational principles of physics (should also be assigned at least one	51J15
	other classification number in section 49)	51J20
49S99	None of the above, but in this section	
		51J99
51-XX	GEOMETRY {For algebraic geometry, see 14–XX}	51655 51Kxx
51 - 00	General reference works (handbooks, dictionaries, bibliographies,	
	etc.)	$51 \mathrm{K} 05$
51 - 01	Instructional exposition (textbooks, tutorial papers, etc.)	51 K10
51 - 02	Research exposition (monographs, survey articles)	$51 \mathrm{K99}$
		51Lxx
51 - 03	Historical (must also be assigned at least one classification number	51L05
	from Section 01)	
51 - 04	Explicit machine computation and programs (not the theory of	51L10
	computation or programming)	51L15
51 - 06	Proceedings, conferences, collections, etc.	51L20
51 00 51Axx	Linear incidence geometry	51L99
		51Mxx
51A05	General theory and projective geometries	51M04
51A10	Homomorphism, automorphism and dualities	
51A15	Structures with parallelism	51M05
51A20	Configuration theorems	51M09
51A25	Algebraization [See also 12Kxx, 20N05]	51M10
	• · · ·	51M15
51A30	Desarguesian and Pappian geometries	51M16
51A35	Non-Desarguesian affine and projective planes	0111110
51A40	Translation planes and spreads	513 (00
51A45	Incidence structures imbeddable into projective geometries	51M20
51A50	Polar geometry, symplectic spaces, orthogonal spaces	
51A99	None of the above, but in this section	51M25
51Bxx	Nonlinear incidence geometry	51M30
		51M35
51B05	General theory	0111100
51B10	Möbius geometries	
51B15	Laguerre geometries	
51B20	Minkowski geometries	51M99
51B25	Lie geometries	51Nxx
		51N05
51B99	None of the above, but in this section	51N10
51Cxx	Ring geometry (Hjelmslev, Barbilian, etc.)	51N15
51C05	Ring geometry (Hjelmslev, Barbilian, etc.)	
51C99	None of the above, but in this section	51N20
51Dxx	Geometric closure systems	51N25
51D05	Abstract (Maeda) geometries	51N30
51D00 51D10	Abstract geometries with exchange axiom	51N35
		51N99
51D15	Abstract geometries with parallelism	51Pxx
51D20	Combinatorial geometries [See also 05B25, 05B35]	JII XX
51D25	Lattices of subspaces [See also 05B35]	
51D30	Continuous geometries and related topics [See also 06Cxx]	51P05
51D99	None of the above, but in this section	
51Exx	Finite geometry and special incidence structures	51P99
		FO WW
51E05	General block designs [See also 05B05]	52–XX
51E10	Steiner systems	52 - 00
51E12	Generalized quadrangles, generalized polygons	
51E14	Finite partial geometries (general), nets, partial spreads	52 - 01
51E15	Affine and projective planes	52 - 02
51E20		
	Combinatorial structures in finite projective spaces [See also 05 Byy]	59 09
	Combinatorial structures in finite projective spaces [See also 05Bxx]	52 - 03
51E21	Blocking sets, ovals, k -arcs	
51E22	Blocking sets, ovals, k -arcs Linear codes and caps in Galois spaces [See also 94B05]	52-03 52-04
	Blocking sets, ovals, k -arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems	
51E22	Blocking sets, ovals, k -arcs Linear codes and caps in Galois spaces [See also 94B05]	
$51E22 \\ 51E23 \\ 51E24$	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams	52-04 52-06
$51E22 \\ 51E23 \\ 51E24 \\ 51E25$	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries	52–04 52–06 52Axx
$51E22 \\ 51E23 \\ 51E24 \\ 51E25 \\ 51E26$	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries	52–04 52–06 52Axx 52A01
51E22 51E23 51E24 51E25 51E26 51E30	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite linear geometries Other finite incidence structures [See also 05B30]	52–04 52–06 52Axx 52A01 52A05
51E22 51E23 51E24 51E25 51E26 51E30 51E99	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section	52–04 52–06 52Axx 52A01 52A05 52A07
51E22 51E23 51E24 51E25 51E26 51E30	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite linear geometries Other finite incidence structures [See also 05B30]	52–04 52–06 52Axx 52A01 52A05
51E22 51E23 51E24 51E25 51E26 51E30 51E99	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry	52–04 52–06 52Axx 52A01 52A05 52A07
51E22 51E23 51E24 51E25 51E26 51E30 51E99 51Fxx 51F05	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry Absolute planes	52–04 52–06 52Axx 52A01 52A05 52A07 52A10
51E22 51E23 51E24 51E25 51E26 51E30 51E99 51Fxx 51F05 51F10	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry Absolute planes Absolute spaces	52–04 52–06 52Axx 52A01 52A05 52A07
51E22 51E23 51E24 51E25 51E26 51E30 51E99 51Fxx 51F05	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry Absolute planes Absolute spaces Reflection groups, reflection geometries [See also 20H10, 20H15; for	52–04 52–06 52Axx 52A01 52A05 52A07 52A10 52A15
51E22 51E23 51E24 51E25 51E26 51E30 51E99 51F05 51F10 51F15	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry Absolute planes Absolute spaces Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]	52–04 52–06 52Axx 52A01 52A05 52A07 52A10
51E22 51E23 51E24 51E25 51E26 51E30 51E99 51Fxx 51F05 51F10 51F15 51F20	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry Absolute planes Absolute spaces Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55] Congruence and orthogonality [See also 20H05]	52–04 52–06 52Axx 52A01 52A05 52A07 52A10 52A15 52A20
51E22 51E23 51E24 51E25 51E26 51E30 51E99 51F05 51F10 51F15	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry Absolute planes Absolute spaces Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]	52–04 52–06 52Axx 52A01 52A05 52A07 52A10 52A15
51E22 51E23 51E24 51E25 51E26 51E30 51E99 51Fxx 51F05 51F10 51F15 51F20	Blocking sets, ovals, k-arcs Linear codes and caps in Galois spaces [See also 94B05] Spreads and packing problems Buildings and the geometry of diagrams Other finite nonlinear geometries Other finite linear geometries Other finite incidence structures [See also 05B30] None of the above, but in this section Metric geometry Absolute planes Absolute spaces Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55] Congruence and orthogonality [See also 20H05]	52–04 52–06 52Axx 52A01 52A05 52A07 52A10 52A15 52A20

51G05	Ordered geometries (ordered incidence structures, etc.)
51G99	None of the above, but in this section
51Hxx	Topological geometry
51 H 0 5	General theory
51H10	Topological linear incidence structures
51H15	Topological nonlinear incidence structures
51H20	Topological geometries on manifolds [See also 57–XX]
51H25	Geometries with differentiable structure [See also 53Cxx, 53C70]
51H30	Geometries with algebraic manifold structure [See also 14–XX]
51H99	None of the above, but in this section
51Jxx	Incidence groups
51J05	General theory
51J10	Projective incidence groups
51J15	Kinematic spaces
51J20	Representation by near-fields and near-algebras [See also 12K05, 16Y30]
51J99	None of the above, but in this section
51555 51Kxx	Distance geometry
51K05	General theory
51K05 51K10	Synthetic differential geometry
51K99	None of the above, but in this section
51Lxx	Geometric order structures [See also 53C75]
51L05	Geometry of orders of nondifferentiable curves
51L10	Directly differentiable curves
51L15	<i>n</i> -vertex theorems via direct methods
51L20	Geometry of orders of surfaces
51L99	None of the above, but in this section
51Mxx	Real and complex geometry
51M04	Elementary problems in Euclidean geometries
51M05	Euclidean geometries (general) and generalizations
51M09	Elementary problems in hyperbolic and elliptic geometries
51M10	Hyperbolic and elliptic geometries (general) and generalizations
51M15	Geometric constructions
51M16	Inequalities and extremum problems {For convex problems, see $52A40$ }
51M20	Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
51M25	Length, area and volume [See also 26B15]
51M30	Line geometries and their generalizations [See also 53A25]
51M35	Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations)
	[See also 14M15]
51M99	None of the above, but in this section
51Nxx	Analytic and descriptive geometry
51N05	Descriptive geometry [See also 65D17, 68U07]
51N10	Affine analytic geometry
51N15	Projective analytic geometry
51N20	Euclidean analytic geometry
51N25	Analytic geometry with other transformation groups
51N30	Geometry of classical groups [See also 20Gxx, 14L35]
51N35	Questions of classical algebraic geometry [See also 14Nxx]
51N99	None of the above, but in this section
51Pxx	Geometry and physics (should also be assigned at least one other
	classification number from Sections 70–86)
51P05	Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)
51P99	None of the above, but in this section
-XX	CONVEX AND DISCRETE GEOMETRY
52-00	General reference works (handbooks, dictionaries, bibliographies, etc.)
52 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
52-01 52-02	Research exposition (monographs, survey articles)
52-02 52-03	Historical (must also be assigned at least one classification number from Section 01)
52 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
52-06	Proceedings, conferences, collections, etc.
52Axx	General convexity
52A01	Axiomatic and generalized convexity
52A05 52A07	Convex sets without dimension restrictions Convex sets in topological vector spaces [See also 46A55]
52A07 52A10	Convex sets in topological vector spaces [See also 46A55] Convex sets in 2 dimensions (including convex curves)
	[See also 53A04]
52A15	Convex sets in 3 dimensions (including convex surfaces) [See also 53A05, 53C45]
52A20	Convex sets in n dimensions (including convex hypersurfaces) [See also 53A07, 53C45]
52A21	Finite-dimensional Banach spaces (including special norms, zonoids,

Ordered geometries (ordered incidence structures, etc.)

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etc.) [See also 46Bxx]

S29

53A99

None of the above, but in this section

53Bxx

53B05

Local differential geometry

Linear and affine connections

52A22Random convex sets and integral geometry [See also 53C65, 60D05] 52A23 Asymptotic theory of convex bodies [See also 46B06] 52A27 Approximation by convex sets 52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.) 52A35Helly-type theorems and geometric transversal theory 52A37 Other problems of combinatorial convexity 52A38 Length, area, volume [See also 26B15, 28A75, 49Q20] 52A39Mixed volumes and related topics 52A40Inequalities and extremum problems 52A41Convex functions and convex programs [See also 26B25, 90C25] 52A55Spherical and hyperbolic convexity 52A99 None of the above, but in this section 52Bxx Polytopes and polyhedra 52B05Combinatorial properties (number of faces, shortest paths, etc.) [See also 05Cxx] 52B10Three-dimensional polytopes 52B11*n*-dimensional polytopes 52B12Special polytopes (linear programming, centrally symmetric, etc.) 52B15Symmetry properties of polytopes 52B20Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A11, 13F20, 13Hxx] Shellability 52B2252B35Gale and other diagrams 52B40Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35, 52Cxx] 52B45Dissections and valuations (Hilbert's third problem, etc.) 52B55Computational aspects related to convexity {For computational geometry and algorithms, see 68Q25, 68U05; for numerical algorithms, see 65Yxx [See also 68Uxx] 52B60Isoperimetric problems for polytopes 52B70Polyhedral manifolds 52B99None of the above, but in this section **Discrete geometry** 52Cxx Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 52C0511P2152C07Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21] 52C10Erdős problems and related topics of discrete geometry [See also 11Hxx] 52C15Packing and covering in 2 dimensions [See also 05B40, 11H31] 52C17Packing and covering in n dimensions [See also 05B40, 11H31] 52C20Tilings in 2 dimensions [See also 05B45, 51M20] 52C22Tilings in n dimensions [See also 05B45, 51M20] 52C23Quasicrystals, aperiodic tilings Rigidity and flexibility of structures [See also 70B15] 52C2552C26Circle packings and discrete conformal geometry 52C30Planar arrangements of lines and pseudolines 52C35Arrangements of points, flats, hyperplanes [See also 32S22] 52C40Oriented matroids 52C45Combinatorial complexity of geometric structures [See also 68U05] 52C99None of the above, but in this section 53–XX DIFFERENTIAL GEOMETRY {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx53 - 00General reference works (handbooks, dictionaries, bibliographies, etc.) 53 - 01Instructional exposition (textbooks, tutorial papers, etc.) 53 - 02Research exposition (monographs, survey articles) 53 - 03Historical (must also be assigned at least one classification number from Section 01) 53 - 04Explicit machine computation and programs (not the theory of computation or programming) 53 - 06Proceedings, conferences, collections, etc. **Classical differential geometry** 53Axx 53A04Curves in Euclidean space 53A05Surfaces in Euclidean space Higher-dimensional and -codimensional surfaces in Euclidean n-space 53A07 53A10 Minimal surfaces, surfaces with prescribed mean curvature [See also 49Q05, 49Q10, 53C42] 53A15 Affine differential geometry 53A17 Kinematics 53A20 Projective differential geometry 53A25Differential line geometry Conformal differential geometry 53A30 Non-Euclidean differential geometry 53A35 Other special differential geometries 53A40Vector and tensor analysis 53A45Differential invariants (local theory), geometric objects 53A5553A60 Geometry of webs [See also 14C21, 20N05]

- Projective connections 53B1053B15Other connections Local Riemannian geometry 53B2053B21Methods of Riemannian geometry 53B25Local submanifolds [See also 53C40] 53B30Lorentz metrics, indefinite metrics 53B35Hermitian and Kählerian structures [See also 32Cxx] 53B40Finsler spaces and generalizations (areal metrics) 53B50Applications to physics 53B99None of the above, but in this section 53Cxx Global differential geometry [See also 51H25, 58-XX; for related bundle theory, see 55Rxx, 57Rxx] 53C05Connections, general theory 53C07Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32Q20] 53C08Gerbes, differential characters: differential geometric aspects 53C10*G*-structures 53C12Foliations (differential geometric aspects) [See also 57R30, 57R32] 53C15General geometric structures on manifolds (almost complex, almost product structures, etc.) 53C17Sub-Riemannian geometry 53C20Global Riemannian geometry, including pinching [See also 31C12, 58B2053C21Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58J60] 53C22Geodesics [See also 58E10] 53C23Global geometric and topological methods (à la Gromov); differential geometric analysis on metric spaces 53C24**Rigidity** results 53C25Special Riemannian manifolds (Einstein, Sasakian, etc.) 53C26Hyper-Kähler and quaternionic Kähler geometry, "special" geometry 53C27Spin and Spin^c geometry 53C28Twistor methods [See also 32L25] 53C29Issues of holonomy 53C30Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15] Symmetric spaces [See also 32M15, 57T15] 53C35Calibrations and calibrated geometries 53C38 Global submanifolds [See also 53B25] 53C4053C42Immersions (minimal, prescribed curvature, tight, etc.) [See also 49Q05, 49Q10, 53A10, 57R40, 57R42] 53C43Differential geometric aspects of harmonic maps [See also 58E20] 53C44Geometric evolution equations (mean curvature flow, Ricci flow, etc.) 53C45Global surface theory (convex surfaces à la A. D. Aleksandrov) 53C50Lorentz manifolds, manifolds with indefinite metrics 53C55Hermitian and Kählerian manifolds [See also 32Cxx] 53C56Other complex differential geometry [See also 32Cxx] 53C60Finsler spaces and generalizations (areal metrics) [See also 58B20] 53C65Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx] 53C70Direct methods (G-spaces of Busemann, etc.) 53C75Geometric orders, order geometry [See also 51Lxx] 53C80Applications to physics 53C99None of the above, but in this section 53Dxx Symplectic geometry, contact geometry [See also 37Jxx, 70Gxx, 70Hxx 53D05Symplectic manifolds, general 53D10Contact manifolds, general 53D12Lagrangian submanifolds; Maslov index 53D15 Almost contact and almost symplectic manifolds 53D17 Poisson manifolds; Poisson groupoids and algebroids 53D18 Generalized geometries (à la Hitchin) 53D20 Momentum maps; symplectic reduction 53D22Canonical transformations 53D25Geodesic flows Symplectic structures of moduli spaces 53D30 53D35Global theory of symplectic and contact manifolds [See also 57Rxx] 53D37 Mirror symmetry, symplectic aspects; homological mirror symmetry; Fukaya category [See also 14J33] 53D40Floer homology and cohomology, symplectic aspects
 - 53D42 Symplectic field theory; contact homology
 - 53D45 Gromov-Witten invariants, quantum cohomology, Frobenius manifolds [See also 14N35]
 - 53D50 Geometric quantization
 - 53D55 Deformation quantization, star products
 - oboo New City Land Land Star produce
- 53D99 None of the above, but in this section53Zxx Applications to physics
- 53Z05 Applications to physics
- 53Z99 None of the above, but in this section

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54-XX	GENERAL TOPOLOGY {For the topology of manifolds of all
54-00	dimensions, see 57Nxx} General reference works (handbooks, dictionaries, bibliographies,
54-00	etc.)
$\begin{array}{c} 54 - 01 \\ 54 - 02 \end{array}$	Instructional exposition (textbooks, tutorial papers, etc.)
54-02 54-03	Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number
	from Section 01)
54 - 04	Explicit machine computation and programs (not the theory of computation or programming)
54 - 06	Proceedings, conferences, collections, etc.
54Axx	Generalities
$\begin{array}{c} 54A05\\54A10\end{array}$	Topological spaces and generalizations (closure spaces, etc.) Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
54A15	Syntopogeneous structures
54A20	Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
54A25	Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx] {For ultrafilters, see 54D80}
54A35	Consistency and independence results [See also 03E35]
$\begin{array}{c} 54A40\\ 54A99 \end{array}$	Fuzzy topology [See also 03E72] None of the above, but in this section
54Bxx	Basic constructions
54B05	Subspaces
54B10 54D15	Product spaces
$\begin{array}{c} 54B15\\ 54B17\end{array}$	Quotient spaces, decompositions Adjunction spaces and similar constructions
54B20	Hyperspaces
54B30	Categorical methods [See also $18B30$]
$\begin{array}{c} 54B35\\ 54B40 \end{array}$	Spectra Presheaves and sheaves [See also 18F20]
54B40 54B99	None of the above, but in this section
54Cxx	Maps and general types of spaces defined by maps
54C05	Continuous maps
$\begin{array}{c} 54\mathrm{C08} \\ 54\mathrm{C10} \end{array}$	Weak and generalized continuity Special maps on topological spaces (open, closed, perfect, etc.)
54C15	Retraction
54C20	Extension of maps
$\begin{array}{c} 54\text{C}25\\ 54\text{C}30 \end{array}$	Embedding Real-valued functions [See also 26–XX]
54C30 54C35	Function spaces [See also 46Exx, 58D15]
54C40	Algebraic properties of function spaces [See also 46J10]
54C45	C - and C^* -embedding
$\begin{array}{c} 54\mathrm{C50} \\ 54\mathrm{C55} \end{array}$	Special sets defined by functions [See also 26A21] Absolute neighborhood extensor, absolute extensor, absolute
01000	neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
54C56	Shape theory [See also 55P55, 57N25]
54C60	Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
$\begin{array}{c} 54\mathrm{C65} \\ 54\mathrm{C70} \end{array}$	Selections [See also 28B20] Entropy
54C99	None of the above, but in this section
54Dxx	Fairly general properties
54D05	Connected and locally connected spaces (general aspects)
$54\mathrm{D10}$ $54\mathrm{D15}$	Lower separation axioms $(T_0-T_3, \text{ etc.})$ Higher separation axioms (completely regular, normal, perfectly or
	collectionwise normal, etc.)
$\begin{array}{c} 54\mathrm{D20}\\ 54\mathrm{D25} \end{array}$	Noncompact covering properties (paracompact, Lindelöf, etc.) "P-minimal" and "P-closed" spaces
54D25 54D30	Compactness
54D35	Extensions of spaces (compactifications, supercompactifications,
F 4D 40	completions, etc.)
$\begin{array}{c} 54\mathrm{D40}\\ 54\mathrm{D45} \end{array}$	Remainders Local compactness, σ -compactness
54D40 54D50	k-spaces
54D55	Sequential spaces
54D60	Realcompactness and realcompactification
54D65 54D70	Separability Base properties
54D80	Special constructions of spaces (spaces of ultrafilters, etc.)
54D99	None of the above, but in this section
54Exx 54E05	Spaces with richer structures Proximity structures and generalizations
54E05 54E15	Uniform structures and generalizations
54E17	Nearness spaces
54E18	p -spaces, M -spaces, σ -spaces, etc.
$\begin{array}{c} 54\mathrm{E20} \\ 54\mathrm{E25} \end{array}$	Stratifiable spaces, cosmic spaces, etc. Semimetric spaces
54E20 54E30	Moore spaces

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55N40 55N45

55N91

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54E35	Metric spaces, metrizability
54E40	Special maps on metric spaces
54E45	Compact (locally compact) metric spaces
54E50	Complete metric spaces
54E52	Baire category, Baire spaces
54E55	Bitopologies
54E70	Probabilistic metric spaces
54E99	None of the above, but in this section
54Fxx	Special properties
54F05	Linearly ordered topological spaces, generalized ordered spaces, and
011 00	partially ordered spaces [See also 06B30, 06F30]
	Continua and generalizations
54F15	
54F35	Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
54F45	Dimension theory [See also $55M10$]
54F50	Spaces of dimension ≤ 1 ; curves, dendrites [See also 26A03]
54F55	Unicoherence, multicoherence
54F65	Topological characterizations of particular spaces
54F99	None of the above, but in this section
54Gxx	Peculiar spaces
	-
54G05	Extremally disconnected spaces, <i>F</i> -spaces, etc.
54G10	P-spaces
54G12	Scattered spaces
54G15	Pathological spaces
54G20	Counterexamples
54G99	None of the above, but in this section
54Hxx	Connections with other structures, applications
54H05	Descriptive set theory (topological aspects of Borel, analytic,
54H05	
	projective, etc. sets) [See also 03E15, 26A21, 28A05]
54H10	Topological representations of algebraic systems [See also 22–XX]
54H11	Topological groups [See also 22A05]
54H12	Topological lattices, etc. [See also 06B30, 06F30]
54H13	Topological fields, rings, etc. [See also 12Jxx] {For algebraic aspects,
	see 13Jxx, 16W80}
54H15	Transformation groups and semigroups [See also 20M20, 22–XX,
541115	
5 41100	57Sxx]
54H20	Topological dynamics [See also 28Dxx, 37Bxx]
54H25	Fixed-point and coincidence theorems [See also 47H10, 55M20]
54 H99	None of the above, but in this section
F 4 T	Newstern dawyd tew ale ma [See aleg 021105]
54Jxx	Nonstandard topology [See also USHUS]
	Nonstandard topology [See also 03H05] Nonstandard topology [See also 03H05]
54J05	Nonstandard topology [See also 03H05]
	Nonstandard topology [See also 03H05] None of the above, but in this section
54J05	Nonstandard topology [See also 03H05]
54J05 54J99	Nonstandard topology [See also 03H05] None of the above, but in this section
54J05 54J99 55–XX	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies,
54J05 54J99 55–XX 55–00	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.)
54J05 54J99 55-XX 55-00 55-01	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.)
54J0554J9955–XX55–00 $55-0155-02$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)
54J05 54J99 55-XX 55-00 55-01	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number
$54J05 \\ 54J99 \\ 55-XX \\ 55-00 \\ 55-01 \\ 55-02 \\ 55-03 \\ $	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01)
54J0554J9955–XX55–00 $55-0155-02$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of
$54J05 \\ 54J99 \\ 55-XX \\ 55-00 \\ 55-01 \\ 55-02 \\ 55-03 \\ $	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01)
$54J05 \\ 54J99 \\ 55-XX \\ 55-00 \\ 55-01 \\ 55-02 \\ 55-03 \\ $	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of
54J0554J9955-XX55-00 $55-0155-0255-0355-04$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc.
54J0554J9955–XX55–00 $55-0155-0255-0355-0455-04$	 Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds,
54J0554J9955-XX55-00 $55-0155-0255-0355-0455-0455-0655Mxx$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx}
54J0554J99 55–XX55–00 $55-0155–0255–0355-0455-0655Mxx55M05$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality
54J0554J99 55–XX55–00 $55-0155–0255–0355-0455-0655Mxx55M0555M10$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45]
54J0554J99 55–XX55–00 $55-0155-0255-03 55–04 55-0655Mxx55M0555M1055M15$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55]
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M05\\ \hline 55M10\\ \hline 55M15\\ \hline 55M20\\ \end{array}$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25]
54J0554J99 55–XX55–00 $55-0155-0255-03 55–04 55-0655Mxx55M0555M1055M15$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M05\\ \hline 55M10\\ \hline 55M15\\ \hline 55M20\\ \end{array}$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25]
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M12\\ 55M15\\ 55M15\\ 55M20\\ 55M25\\ \end{array}$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M20\\ 55M10\\ 55M20\\ 55M20\\ 55M25\\ 55M30\\ \end{array}$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space
$54J05 \\ 54J99 \\ 55-XX \\ 55-00 \\ 55-01 \\ 55-02 \\ 55-03 \\ 55-04 \\ 55-04 \\ 55-06 \\ 55Mxx \\ 555M05 \\ 55M10 \\ 55M15 \\ 55M10 \\ 55M15 \\ 55M20 \\ 55M25 \\ 55M30 \\ 55M30 \\ 55M35 \\ 55M30 \\ 55M35 \\ 55M$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17]
$54J05 \\ 54J99 \\ 55-XX \\ 55-00 \\ 55-01 \\ 55-02 \\ 55-03 \\ 55-04 \\ 55-04 \\ 55-06 \\ 55Mxx \\ 555M05 \\ 55M10 \\ 55M15 \\ 55M10 \\ 55M15 \\ 55M20 \\ 55M25 \\ 55M20 \\ 55M30 \\ 55M30 \\ 55M35 \\ 55M30 \\ 55M39 \\ 55M99 \\ 55M99 \\ 54M30 \\ 55M99 \\ 55M9 \\$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section
54J05 54J99 55–XX 55–00 $55-01 55–02 55–03 55–04 55-0655M2555M1055M1555M2055M2555M2055M2555M3055M3555M3955N82$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx]
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-01\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-06\\ \hline 55-0$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M15\\ 55M05\\ 55M10\\ 55M15\\ 55M10\\ 55M20\\ 55M20\\ 55M25\\ 55M30\\ 55M30\\ 55M35\\ \hline 55M30\\ 55M35\\ \hline 55M30\\ 55M35\\ \hline 55M30\\ 55M35\\ \hline 55M05\\ 55N05\\ 55N07\\ \hline \end{array}$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M20\\ \hline 55M10\\ 55M15\\ 55M20\\ 55M20\\ 55M25\\ 55M20\\ 55M25\\ \hline 55M20\\ 55M25\\ \hline 55M30\\ \hline 55M35\\ \hline 55M35\\ \hline 55M30\\ \hline 55M35\\ \hline $	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M15\\ 55M05\\ 55M10\\ 55M15\\ 55M10\\ 55M20\\ 55M20\\ 55M25\\ 55M30\\ 55M30\\ 55M35\\ \hline 55M30\\ 55M35\\ \hline 55M30\\ 55M35\\ \hline 55M30\\ 55M35\\ \hline 55M05\\ 55N05\\ 55N07\\ \hline \end{array}$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–
$\begin{array}{c} 54J05\\ 54J99\\ \hline 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M25\\ \hline 55M25\\ \hline 55M10\\ \hline 55M15\\ \hline 55M20\\ \hline 55M25\\ \hline 55M20\\ \hline 55M25\\ \hline 55M30\\ \hline 55M35\\ \hline 55M35\\ \hline 55M10\\ \hline 55N15\\ \hline 55N10\\ \hline 55N15\\ \hline 55N10\\ \hline 55N15\\ \hline 55N10\\ \hline 55N15\\ \hline 55$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX}
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M20\\ \hline 55M10\\ 55M15\\ 55M20\\ 55M20\\ 55M25\\ 55M20\\ 55M25\\ \hline 55M20\\ 55M25\\ \hline 55M30\\ \hline 55M35\\ \hline 55M35\\ \hline 55M30\\ \hline 55M35\\ \hline $	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–
$\begin{array}{c} 54J05\\ 54J99\\ \hline 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-04\\ \hline 55-06\\ \hline 55M25\\ \hline 55M25\\ \hline 55M10\\ \hline 55M15\\ \hline 55M20\\ \hline 55M25\\ \hline 55M20\\ \hline 55M25\\ \hline 55M30\\ \hline 55M35\\ \hline 55M35\\ \hline 55M10\\ \hline 55N15\\ \hline 55N10\\ \hline 55N15\\ \hline 55N10\\ \hline 55N15\\ \hline 55N10\\ \hline 55N15\\ \hline 55$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX}
$\begin{array}{c} 54J05\\ 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-02\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-06\\ \hline 55M25\\ 55M05\\ 55M10\\ 55M15\\ 55M20\\ 55M25\\ 55M20\\ 55M30\\ 55M30\\ 55M35\\ \hline 55M20\\ \hline 55M25\\ 55M20\\ \hline 55M20\\ \hline 55M20\\ \hline 55M25\\ \hline 55M20\\ \hline 55M2$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX} Generalized (extraordinary) homology and cohomology theories Bordism and cobordism theories, formal group laws [See also 14L05,
$\begin{array}{c} 54J05\\ 54J99\\ \hline 54J99\\ \hline 55-XX\\ 55-00\\ \hline 55-01\\ 55-02\\ 55-03\\ \hline 55-04\\ \hline 55-06\\ \hline 55M25\\ \hline 55M20\\ \hline 55M10\\ \hline 55M15\\ \hline 55M20\\ \hline 55M25\\ \hline 55M30\\ \hline 55M35\\ \hline 55M30\\ \hline 55M35\\ \hline 55M30\\ \hline 55M35\\ \hline 55M30\\ \hline 55M25\\ \hline 55M20\\ \hline 55N10\\ \hline 55N15\\ \hline 55N10\\ \hline 55N15\\ \hline 55N20\\ \hline 55N22\\ \hline 55N2$	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX} Generalized (extraordinary) homology and cohomology theories Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
54J05 54J99 55–XX 55–00 55–02 55–03 55–04 55–04 55–06 55M20 55M20 55M20 55M20 55M25 55M30 55M35 55M30 55M35 55M30 55M35 55M30 55M35 55M30 55M35 55N20 55N22 55N22	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54C55] Fixed points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX} Generalized (extraordinary) homology and cohomology theories Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90] Homology with local coefficients, equivariant cohomology
54J05 54J99 55–XX 55–00 55–02 55–03 55–04 55–04 55–06 55M 20 55M10 55M15 55M20 55M25 55M30 55M35 55M30 55M35 55M30 55M35 55N30 55N10 55N10 55N10 55N10 55N10 55N10	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX} Generalized (extraordinary) homology and cohomology theories Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90] Homology with local coefficients, equivariant cohomology Sheaf cohomology [See also 18F20, 32C35, 32L10]
54J05 54J99 55–XX 55–00 55–02 55–03 55–04 55–06 55Mxx 55M05 55M10 55M15 55M20 55M25 55M30 55M30 55M35 55N05 55N07 55N10 55N10 55N10 55N10 55N10 55N10 55N10 55N10	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54H25] Pisced points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX} Generalized (extraordinary) homology and cohomology theories Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90] Homology with local coefficients, equivariant cohomology Sheaf cohomology [See also 18F20, 32C35, 32L10] Orbifold cohomology
54J05 54J99 55–XX 55–00 55–02 55–03 55–04 55–06 55Mxx 55M05 55M10 55M25 55M20 55M25 55M30 55M30 55M35 55N05 55N07 55N10 55	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see $57Nxx$ } Duality Dimension theory [See also $54F45$] Absolute neighborhood retracts [See also $54C55$] Fixed points and coincidences [See also $54H25$] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also $57S17$] None of the above, but in this section Homology and cohomology theories [See also $57Txx$] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also $19Lxx$] {For algebraic <i>K</i> -theory, see $18F25$, $19-XX$ } Generalized (extraordinary) homology and cohomology theories Bordism and cobordism theories, formal group laws [See also $14L05$, 19L41, $57R75$, $57R77$, $57R85$, $57R90$] Homology with local coefficients, equivariant cohomology Sheaf cohomology [See also $18F20$, $32C35$, $32L10$] Orbifold cohomology
54J05 54J99 55–XX 55–00 55–02 55–03 55–04 55–06 55Mxx 55M05 55M10 55M15 55M20 55M25 55M30 55M30 55M35 55N05 55N07 55N10 55N10 55N10 55N10 55N10 55N10 55N10 55N10	Nonstandard topology [See also 03H05] None of the above, but in this section ALGEBRAIC TOPOLOGY General reference works (handbooks, dictionaries, bibliographies, etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx} Duality Dimension theory [See also 54F45] Absolute neighborhood retracts [See also 54H25] Pisced points and coincidences [See also 54H25] Degree, winding number Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space Finite groups of transformations (including Smith theory) [See also 57S17] None of the above, but in this section Homology and cohomology theories [See also 57Txx] Čech types Steenrod-Sitnikov homologies Singular theory <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19– XX} Generalized (extraordinary) homology and cohomology theories Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90] Homology with local coefficients, equivariant cohomology Sheaf cohomology [See also 18F20, 32C35, 32L10] Orbifold cohomology

Axioms for homology theory and uniqueness theorems

Equivariant homology and cohomology [See also 19L47]

Products and intersections

55N99	
	None of the above, but in this section
55Pxx	Homotopy theory {For simple homotopy type, see 57Q10}
55P05	Homotopy extension properties, cofibrations
55P10	Homotopy equivalences
55P15	Classification of homotopy type
55P20	Eilenberg-Mac Lane spaces
55P25	Spanier-Whitehead duality
55P30	Eckmann-Hilton duality
55P35	Loop spaces
55P40	Suspensions
55P42	Stable homotopy theory, spectra
55P43	Spectra with additional structure $(E_{\infty}, A_{\infty}, \text{ring spectra, etc.})$
55P45	H-spaces and duals
55P47	-
	Infinite loop spaces
55P48	Loop space machines, operads [See also 18D50]
55P50	String topology
55P55	Shape theory [See also 54C56, 55Q07]
55P57	Proper homotopy theory
55P60	Localization and completion
55P62	Rational homotopy theory
55P65	Homotopy functors
55P91	Equivariant homotopy theory [See also 19L47]
55P92	Relations between equivariant and nonequivariant homotopy theory
55P99	None of the above, but in this section
55Qxx	Homotopy groups
55Q05	Homotopy groups, general; sets of homotopy classes
55Q07	Shape groups
55Q10	Stable homotopy groups
55Q15	Whitehead products and generalizations
55Q20	Homotopy groups of wedges, joins, and simple spaces
55Q25	Hopf invariants
55Q35	Operations in homotopy groups
55Q40	Homotopy groups of spheres
55Q45	Stable homotopy of spheres
55Q50	J-morphism [See also 19L20]
55Q51	v_n -periodicity
55Q52	Homotopy groups of special spaces
55Q55	Cohomotopy groups
55Q70	Homotopy groups of special types [See also 55N05, 55N07]
55Q91	Equivariant homotopy groups [See also 19L47]
55Q91 55Q99	None of the above, but in this section
55 Rxx	Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20,
JULIA	57R22, 57R25]
55R05	Fiber spaces
	Fiber bundles
$55 \mathrm{R10}$ $55 \mathrm{R12}$	
$\partial \partial \Lambda I Z$	() have a fam
	Transfer
55R15	Classification
55R15 55R20	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$]
$55R15 \\ 55R20 \\ 55R25$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles
55R15 55R20 55R25 55R35	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces
55R15 55R20 55R25 55R35 55R37	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and H -spaces Maps between classifying spaces
55R15 55R20 55R25 55R35	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx,
55R15 55R20 55R25 55R35 55R37 55R40	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
55R15 55R20 55R25 55R35 55R37 55R40 55R45	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity
55R15 55R20 55R25 55R35 55R37 55R40	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx]
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ 55 \mathrm{R45} \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX}
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R55} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ 55 \mathrm{R45} \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50]
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R55} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R55} \\ 55 \mathrm{R60} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50]
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R55} \\ 55 \mathrm{R60} \\ 55 \mathrm{R65} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R55} \\ 55 \mathrm{R60} \\ 55 \mathrm{R65} \\ 55 \mathrm{R70} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>B</i> O and <i>B</i> U; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R55} \\ 55 \mathrm{R60} \\ 55 \mathrm{R65} \\ 55 \mathrm{R70} \\ 55 \mathrm{R70} \\ 55 \mathrm{R80} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R55} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R60} \\ 55 \mathrm{R65} \\ 55 \mathrm{R70} \\ 55 \mathrm{R80} \\ 55 \mathrm{R91} \\ \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47]
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R60} \\ 55 \mathrm{R60} \\ \\ 55 \mathrm{R60} \\ \\ 55 \mathrm{R70} \\ \\ 55 \mathrm{R80} \\ \\ 55 \mathrm{R91} \\ \\ 55 \mathrm{R99} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section
55R15 55R20 55R25 55R35 55R37 55R40 55R45 55R50 55R55 55R60 55R65 55R60 55R65 55R70 55R80 55R91 55R99 55Sxx	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions
55R15 55R20 55R25 55R35 55R37 55R40 55R45 55R50 55R55 55R60 55R65 55R60 55R65 55R70 55R80 55R80 55R91 55R99 55Sxx 55S05	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions Primary cohomology operations
55R15 55R20 55R25 55R35 55R37 55R40 55R45 55R55 55R60 55R65 55R60 55R65 55R70 55R80 55R91 55R99 55R91 55R99 55S05 55S10	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra
55R15 55R20 55R25 55R35 55R37 55R40 55R45 55R55 55R60 55R65 55R60 55R65 55R70 55R80 55R91 55R99 55R99 55S05 55S10 55S12	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products
55R15 55R20 55R25 55R35 55R37 55R40 55R45 55R50 55R50 55R60 55R65 55R60 55R70 55R80 55R91 55R91 55R99 55R91 55R99 55S10 55S10 55S12 55S15	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations
$\begin{array}{c} 55 \mathrm{R15} \\ 55 \mathrm{R20} \\ 55 \mathrm{R25} \\ 55 \mathrm{R35} \\ 55 \mathrm{R37} \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R40} \\ \\ 55 \mathrm{R45} \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R50} \\ \\ 55 \mathrm{R60} \\ 55 \mathrm{R60} \\ \\ 55 \mathrm{R60} \\ \\ 55 \mathrm{R70} \\ \\ 55 \mathrm{R90} \\ \\ 55 \mathrm{R91} \\ \\ 55 \mathrm{R91} \\ \\ 55 \mathrm{R99} \\ \\ \\ 55 \mathrm{R91} \\ \\ 55 \mathrm{S10} \\ \\ 55 \mathrm{S112} \\ \\ 55 \mathrm{S15} \\ \\ 55 \mathrm{S15} \\ \\ 55 \mathrm{S15} \\ \\ 55 \mathrm{S20} \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations <i>K</i> -theory operations and generalized cohomology operations
$\begin{array}{c} 55 \mathrm{R}15\\ 55 \mathrm{R}20\\ 55 \mathrm{R}25\\ 55 \mathrm{R}35\\ 55 \mathrm{R}37\\ 55 \mathrm{R}40\\ \\ 55 \mathrm{R}40\\ \\ 55 \mathrm{R}45\\ 55 \mathrm{R}50\\ \\ 55 \mathrm{R}50\\ \\ 55 \mathrm{R}60\\ 55 \mathrm{R}60\\ 55 \mathrm{R}65\\ 55 \mathrm{R}70\\ 55 \mathrm{R}80\\ 55 \mathrm{R}91\\ \\ 55 \mathrm{R}99\\ \\ 55 \mathrm{S}10\\ \\ 55 \mathrm{S}12\\ \\ 55 \mathrm{S}12\\ \\ 55 \mathrm{S}12\\ \\ 55 \mathrm{S}20\\ \\ 55 \mathrm{S}225\\ \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations <i>K</i> -theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
$\begin{array}{c} 55 \mathrm{R}15\\ 55 \mathrm{R}20\\ 55 \mathrm{R}25\\ 55 \mathrm{R}35\\ 55 \mathrm{R}37\\ 55 \mathrm{R}40\\ \\ \\ 55 \mathrm{R}40\\ \\ \\ 55 \mathrm{R}55\\ \\ 55 \mathrm{R}50\\ \\ \\ 55 \mathrm{R}60\\ \\ 55 \mathrm{R}60\\ \\ 55 \mathrm{R}65\\ \\ \\ 55 \mathrm{R}70\\ \\ \\ 55 \mathrm{R}80\\ \\ \\ 55 \mathrm{R}91\\ \\ \\ \\ 55 \mathrm{R}99\\ \\ \\ \\ \\ \\ 55 \mathrm{R}99\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also $57Txx$, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also $19Lxx$] {For algebraic <i>K</i> -theory, see $18F25$, $19-XX$ } Fiberings with singularities Microbundles and block bundles [See also $57N55$, $57Q50$] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also $19L47$] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations [See also $19D55$, $19Lxx$] Massey products
$\begin{array}{c} 55 \mathrm{R}15\\ 55 \mathrm{R}20\\ 55 \mathrm{R}25\\ 55 \mathrm{R}35\\ 55 \mathrm{R}37\\ 55 \mathrm{R}40\\ \\\\ 55 \mathrm{R}45\\ 55 \mathrm{R}50\\ \\\\ 55 \mathrm{R}55\\ 55 \mathrm{R}60\\ 55 \mathrm{R}65\\ 55 \mathrm{R}70\\ 55 \mathrm{R}80\\ 55 \mathrm{R}91\\ 55 \mathrm{R}99\\ \\\\ 55 \mathrm{R}99\\ \\\\ 55 \mathrm{R}99\\ \\\\ 55 \mathrm{S}10\\ \\\\ 55 \mathrm{S}12\\ \\\\ 55 \mathrm{S}10\\ \\\\ 55 \mathrm{S}12\\ \\\\ 55 \mathrm{S}10\\ \\\\ 55 \mathrm{S}20\\ \\\\ 55 \mathrm{S}25\\ \\\\ 55 \mathrm{S}20\\ \\\\ 55 \mathrm{S}25\\ \\\\ 55 \mathrm{S}30\\ \\\\ 55 \mathrm{S}35\\ \\\end{array}$	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also $57Txx$, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also $19Lxx$] {For algebraic <i>K</i> -theory, see $18F25$, $19-XX$ } Fiberings with singularities Microbundles and block bundles [See also $57N55$, $57Q50$] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also $19L47$] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations [See also $19D55$, $19Lxx$] Massey products Obstruction theory
$\begin{array}{c} 55 \mathrm{R}15\\ 55 \mathrm{R}20\\ 55 \mathrm{R}25\\ 55 \mathrm{R}35\\ 55 \mathrm{R}37\\ 55 \mathrm{R}40\\ \\\\ 55 \mathrm{R}45\\ 55 \mathrm{R}50\\ \\\\ 55 \mathrm{R}55\\ 55 \mathrm{R}60\\ 55 \mathrm{R}65\\ 55 \mathrm{R}60\\ 55 \mathrm{R}65\\ 55 \mathrm{R}70\\ 55 \mathrm{R}80\\ 55 \mathrm{R}91\\ 55 \mathrm{R}99\\ \\\\ 55 \mathrm{R}99\\ \\\\ 55 \mathrm{R}99\\ \\\\ 55 \mathrm{S}10\\ 55 \mathrm{S}10\\ \\\\ 55 \mathrm{S}12\\ \\\\ 55 \mathrm{S}10\\ \\\\ 55 \mathrm{S}12\\ \\\\ 55 \mathrm{S}10\\ \\\\ 55 \mathrm{S}20\\ \\\\ 55 \mathrm{S}25\\ \\\\ 55 \mathrm{S}20\\ \\\\ 55 \mathrm{S}30\\ \\\\ 55 \mathrm{S}35\\ \\\\ 55 \mathrm{S}36\\ \\\\ 55 \mathrm{S}36\\ \\\\ \\ 55 \mathrm{S}36\\ \\\\ \\ \\ 55 \mathrm{S}36\\ \\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Classification Spectral sequences and homology of fiber spaces [See also 55Txx] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also 19Lxx] {For algebraic <i>K</i> -theory, see 18F25, 19–XX} Fiberings with singularities Microbundles and block bundles [See also 57N55, 57Q50] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also 19L47] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations [See also 19D55, 19Lxx] Massey products Obstruction theory Extension and compression of mappings
$\begin{array}{c} 55 \mathrm{R}15\\ 55 \mathrm{R}20\\ 55 \mathrm{R}25\\ 55 \mathrm{R}35\\ 55 \mathrm{R}37\\ 55 \mathrm{R}40\\ \\ 55 \mathrm{R}45\\ 55 \mathrm{R}50\\ \\ 55 \mathrm{R}55\\ 55 \mathrm{R}60\\ 55 \mathrm{R}60\\ 55 \mathrm{R}65\\ 55 \mathrm{R}70\\ 55 \mathrm{R}80\\ 55 \mathrm{R}91\\ 55 \mathrm{R}99\\ \\ 55 \mathrm{S}10\\ 55 \mathrm{R}99\\ \\ 55 \mathrm{S}25\\ 55 \mathrm{S}10\\ 55 \mathrm{S}12\\ 55 \mathrm{S}12\\ 55 \mathrm{S}12\\ 55 \mathrm{S}12\\ 55 \mathrm{S}20\\ 55 \mathrm{S}25\\ \\ 55 \mathrm{S}30\\ 55 \mathrm{S}35\\ 55 \mathrm{S}36\\ 55 \mathrm{S}36\\ 55 \mathrm{S}37\\ \end{array}$	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also $57Txx$, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also $19Lxx$] {For algebraic <i>K</i> -theory, see $18F25$, $19-XX$ } Fiberings with singularities Microbundles and block bundles [See also $57N55$, $57Q50$] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also $19L47$] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations [See also $19D55$, $19Lxx$] Massey products Obstruction theory Extension and compression of mappings Classification of mappings
55R15 55R20 55R25 55R35 55R37 55R40 55R45 55R50 55R50 55R60 55R60 55R65 55R70 55R80 55R91 55R91 55R91 55R90 55R91 55R90 55R12 55S12 55S12 55S12 55S12 55S12 55S15 55S20 55S25 55S30 55S35 55S36 55S36 55S37 55S36 55S37 55S40	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also $57Txx$, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also $19Lxx$] {For algebraic <i>K</i> -theory, see $18F25$, $19-XX$ } Fiberings with singularities Microbundles and block bundles [See also $57N55$, $57Q50$] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also $19L47$] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations [See also $19D55$, $19Lxx$] Massey products Obstruction theory Extension and compression of mappings Classification of mappings
$\begin{array}{c} 55 \mathrm{R}15\\ 55 \mathrm{R}20\\ 55 \mathrm{R}25\\ 55 \mathrm{R}35\\ 55 \mathrm{R}37\\ 55 \mathrm{R}40\\ \\ \\ 55 \mathrm{R}45\\ 55 \mathrm{R}50\\ \\ \\ 55 \mathrm{R}50\\ \\ \\ 55 \mathrm{R}60\\ 55 \mathrm{R}60\\ \\ 55 \mathrm{R}60\\ \\ \\ 55 \mathrm{R}60\\ \\ \\ 55 \mathrm{R}90\\ \\ \\ \\ \\ 55 \mathrm{R}90\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces Homology of classifying spaces, characteristic classes [See also $57Txx$, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also $19Lxx$] {For algebraic <i>K</i> -theory, see $18F25$, $19-XX$ } Fiberings with singularities Microbundles and block bundles [See also $57N55$, $57Q50$] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also $19L47$] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations [See also $19D55$, $19Lxx$] Massey products Obstruction theory Extension and compression of mappings Classification of mappings Sectioning fiber spaces and bundles Postnikov systems, <i>k</i> -invariants
55R15 55R20 55R25 55R35 55R37 55R40 55R45 55R50 55R50 55R60 55R60 55R65 55R70 55R80 55R91 55R91 55R91 55R90 55R91 55R90 55R12 55S12 55S12 55S12 55S12 55S12 55S15 55S20 55S25 55S30 55S35 55S36 55S36 55S37 55S36 55S37 55S40	Classification Spectral sequences and homology of fiber spaces [See also $55Txx$] Sphere bundles and vector bundles Classifying spaces of groups and <i>H</i> -spaces Maps between classifying spaces, characteristic classes [See also $57Txx$, 57R20] Homology of classifying spaces, characteristic classes [See also $57Txx$, 57R20] Homology and homotopy of <i>BO</i> and <i>BU</i> ; Bott periodicity Stable classes of vector space bundles, <i>K</i> -theory [See also $19Lxx$] {For algebraic <i>K</i> -theory, see $18F25$, $19-XX$ } Fiberings with singularities Microbundles and block bundles [See also $57N55$, $57Q50$] Generalizations of fiber spaces and bundles Fibrewise topology Discriminantal varieties, configuration spaces Equivariant fiber spaces and bundles [See also $19L47$] None of the above, but in this section Operations and obstructions Primary cohomology operations Steenrod algebra Dyer-Lashof operations Symmetric products, cyclic products Secondary and higher cohomology operations [See also $19D55$, $19Lxx$] Massey products Obstruction theory Extension and compression of mappings Classification of mappings Sectioning fiber spaces and bundles

55Txx	Spectral sequences [See also 18G40, 55R20]							
55T05	General							
55T10	Serre spectral sequences							
55T15	Adams spectral sequences							
55T20	Eilenberg-Moore spectral sequences [See also 57T35]							
$55{ m T}25 \\ 55{ m T}99$	Generalized cohomology None of the above, but in this section							
55Uxx	Applied homological algebra and category theory [See also 18Gxx]							
55U05	Abstract complexes							
55U10	Simplicial sets and complexes							
55U15	Chain complexes							
55U20	Universal coefficient theorems, Bockstein operator							
55U25	Homology of a product, Künneth formula							
55U30	Duality							
55U35	Abstract and axiomatic homotopy theory							
55U40	Topological categories, foundations of homotopy theory							
55U99	None of the above, but in this section							
57-XX	MANIFOLDS AND CELL COMPLEXES {For complex manifolds,							
	see 32Qxx}							
57 - 00	General reference works (handbooks, dictionaries, bibliographies,							
	etc.)							
57-01	Instructional exposition (textbooks, tutorial papers, etc.)							
57-02	Research exposition (monographs, survey articles)							
57 - 03	Historical (must also be assigned at least one classification number from Section 01)							
57 - 04	Explicit machine computation and programs (not the theory of							
01 01	computation or programming)							
57 - 06	Proceedings, conferences, collections, etc.							
57Mxx	Low-dimensional topology							
57M05	Fundamental group, presentations, free differential calculus							
57M07	Topological methods in group theory							
57M10	Covering spaces							
57M12	Special coverings, e.g. branched							
57M15	Relations with graph theory [See also 05Cxx]							
57M20 57M25	Two-dimensional complexes Knots and links in S^3 {For higher dimensions, see 57Q45}							
$57\mathrm{M}25$ $57\mathrm{M}27$	Invariants of knots and 3-manifolds							
57M27 57M30	Wild knots and surfaces, etc., wild embeddings							
57M35	Dehn's lemma, sphere theorem, loop theorem, asphericity							
57M40	Characterizations of E^3 and S^3 (Poincaré conjecture)							
	[See also 57N12]							
57M50	Geometric structures on low-dimensional manifolds							
57M60	Group actions in low dimensions							
57M99	None of the above, but in this section							
57Nxx	Topological manifolds							
57N05 57N10	Topology of E^2 , 2-manifolds Topology of general 3-manifolds [See also 57Mxx]							
57N10 57N12	Topology of E^3 and S^3 [See also 57M40]							
57N12 57N13	Topology of E^4 , 4-manifolds [See also $14Jxx$, $32Jxx$]							
57N15	Topology of E^n , <i>n</i> -manifolds $(4 < n < \infty)$							
57N16	Geometric structures on manifolds [See also 57M50]							
57N17	Topology of topological vector spaces							
57N20	Topology of infinite-dimensional manifolds [See also 58Bxx]							
57N25	Shapes [See also 54C56, 55P55, 55Q07]							
57N30	Engulfing							
57N35	Embeddings and immersions							
57N37 57N40	Isotopy and pseudo-isotopy							
57N40 57N45	Neighborhoods of submanifolds Flatness and tameness							
57N50	$S^{n-1} \subset E^n$, Schoenflies problem							
57N55	Microbundles and block bundles [See also 55R60, 57Q50]							
57N60	Cellularity							
57N65	Algebraic topology of manifolds							
57N70	Cobordism and concordance							
57N75	General position and transversality							
57N80	Stratifications							
57N99	None of the above, but in this section							
57Pxx	Generalized manifolds [See also 18F15]							
57P05 57P10	Local properties of generalized manifolds Poincaré duality spaces							
57P10 57P99	None of the above, but in this section							
57Qxx	PL-topology							
57Q05	General topology of complexes							
57Q10	Simple homotopy type, Whitehead torsion, Reidemeister-Franz							
	torsion, etc. [See also 19B28]							

- Wall finiteness obstruction for CW-complexes Triangulating manifolds 57Q12 57Q15
- 57Q20Cobordism
- 57Q25 57Q30 Comparison of PL-structures: classification, Hauptvermutung

57Q35	Embeddings and immersions	58 -
57Q37	Isotopy	
$\begin{array}{c} 57\mathrm{Q40} \\ 57\mathrm{Q45} \end{array}$	Regular neighborhoods Knots and links (in high dimensions) {For the low-dimensional case,	58 -
-	see 57M25}	58 -
57Q50	Microbundles and block bundles [See also 55R60, 57N55]	58A
57Q55 57Q60	Approximations	58A
57Q60 57Q65	Cobordism and concordance	58A
$57\mathrm{Q}65$ $57\mathrm{Q}91$	General position and transversality Equivariant PL-topology	58A
57Q91 57Q99	None of the above, but in this section	58A
57 Rxx	Differential topology {For foundational questions of differentiable	58A 58A
0120111	manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}	58A
57 R05	Triangulating	58A
57 R10	Smoothing	58A
57R12	Smooth approximations	58A
57 R15	Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)	58A
57 R17	Symplectic and contact topology	58A
57R18	Topology and geometry of orbifolds	58A
57 R 19	Algebraic topology on manifolds	58A
57R20	Characteristic classes and numbers	58A
57R22	Topology of vector bundles and fiber bundles [See also 55Rxx]	58A 58B
57R25	Vector fields, frame fields	58E
57R27	Controllability of vector fields on C^∞ and real-analytic manifolds	58E
	[See also $49Qxx$, $37C10$, $93B05$]	58E
57R30	Foliations; geometric theory	58E
57R32	Classifying spaces for foliations; Gelfand-Fuks cohomology	58E
r a Dor	[See also 58H10]	001
57R35 57R40	Differentiable mappings	58E
57R40 57R42	Embeddings Immersions	
57R42 57R45	Singularities of differentiable mappings	58E
57R50	Diffeomorphisms	58E
57R52	Isotopy	58E
57R55	Differentiable structures	58C
57R56	Topological quantum field theories	
57R57	Applications of global analysis to structures on manifolds, Donaldson and Seiberg-Witten invariants [See also 58–XX]	580 580
57R58	Floer homology	
57R60	Homotopy spheres, Poincaré conjecture	580
57R65	Surgery and handlebodies	580
57R67	Surgery obstructions, Wall groups [See also 19J25]	580
57R70	Critical points and critical submanifolds	580
57R75	O- and SO-cobordism	FOC
57R77	Complex cobordism (U- and SU-cobordism) [See also 55N22]	58C 58C
57R80 57R85	h- and s-cobordism Equivariant cobordism	580
57R85 57R90	Other types of cobordism [See also 55N22]	580
57R90 57R91	Equivariant algebraic topology of manifolds	580
57R95	Realizing cycles by submanifolds	580
57R99	None of the above, but in this section	58D
57Sxx	Topological transformation groups [See also 20F34, 22–XX, 37–XX,	
	54H15, 58D05]	58I
57S05	Topological properties of groups of homeomorphisms or	
	diffeomorphisms	58E
57S10	Compact groups of homeomorphisms	
57S15	Compact Lie groups of differentiable transformations	58I
57S17 57S20	Finite transformation groups	58I
57S20 57S25	Noncompact Lie groups of transformations	58I
$\begin{array}{c} 57\mathrm{S}25\\ 57\mathrm{S}30 \end{array}$	Groups acting on specific manifolds Discontinuous groups of transformations	58E
57S99	None of the above, but in this section	58I
57 T xx	Homology and homotopy of topological groups and related structures	58I
57T05	Hopf algebras [See also 16T05]	001
57T10	Homology and cohomology of Lie groups	58I
57T15	Homology and cohomology of homogeneous spaces of Lie groups	58L
57T20	Homotopy groups of topological groups and homogeneous spaces	58E
57T25	Homology and cohomology of H -spaces	
$57\mathrm{T}30$	Bar and cobar constructions [See also 18G55, 55Uxx]	58E
$57\mathrm{T}35$	Applications of Eilenberg-Moore spectral sequences [See also $55R20$, $55T20$]	58E 58E
57T99	None of the above, but in this section	UUL
58–XX	GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS	58E
	[See also 32Cxx, 32Fxx, 32Wxx, 46–XX, 47Hxx, 53Cxx]{For	58E
	geometric integration theory, see 49Q15}	58E
58 - 00	General reference works (handbooks, dictionaries, bibliographies,	
	etc.)	58E
58-01	Instructional exposition (textbooks, tutorial papers, etc.)	58E
58 - 02	Research exposition (monographs, survey articles)	
		0 . 1

8-03	Historical (must also be assigned at least one classification number
8-04	from Section 01) Explicit machine computation and programs (not the theory of
5 04	computation or programming)
8-06	Proceedings, conferences, collections, etc.
BAxx	General theory of differentiable manifolds [See also 32Cxx]
3A03	Topos-theoretic approach to differentiable manifolds
3A05	Differentiable manifolds, foundations
8A07	Real-analytic and Nash manifolds [See also 14P20, 32C07] Differential forms
8A10 8A12	de Rham theory [See also 14Fxx]
3A14	Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
3A15	Exterior differential systems (Cartan theory)
8A17	Pfaffian systems
8A20	Jets
8A25	Currents [See also 32C30, 53C65]
3A30	Vector distributions (subbundles of the tangent bundles)
3A32 3A35	Natural bundles Stratified sets [See also 32S60]
8A40	Differential spaces
3A50	Supermanifolds and graded manifolds [See also 14A22, 32C11]
8A99	None of the above, but in this section
Bxx	Infinite-dimensional manifolds
8B05	Homotopy and topological questions
8B10	Differentiability questions
8B12 8B15	Questions of holomorphy [See also 32–XX, 46G20] Fredholm structures [See also 47A53]
3B10 3B20	Riemannian, Finsler and other geometric structures [See also 53C20,
	53C60]
BB25	Group structures and generalizations on infinite-dimensional
Dee	manifolds [See also 22E65, 58D05]
8B32	Geometry of quantum groups
3B34 3B99	Noncommutative geometry (à la Connes) None of the above, but in this section
SCxx	Calculus on manifolds; nonlinear operators [See also 46Txx, 47Hxx,
	47Jxx]
8C05	Real-valued functions
8C06	Set valued and function-space valued mappings [See also 47H04,
8C07	54C60] Continuity properties of mappings
3C10	Holomorphic maps [See also 32–XX]
8C15	Implicit function theorems; global Newton methods
8C20	Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx,
	46G05]
8C25 8C30	Differentiable maps
8C30 8C35	Fixed point theorems on manifolds [See also 47H10] Integration on manifolds; measures on manifolds [See also 28Cxx]
3C40	Spectral theory; eigenvalue problems [See also 47J10, 58E07]
8C50	Analysis on supermanifolds or graded manifolds
8C99	None of the above, but in this section
BDxx	Spaces and manifolds of mappings (including nonlinear versions of
8D05	46Exx) [See also 46Txx, 53Cxx] Groups of diffeomorphisms and homeomorphisms as manifolds
5005	[See also 22E65, 57S05]
8D07	Groups and semigroups of nonlinear operators [See also 17B65,
	47H20]
3D10	Spaces of imbeddings and immersions
8D15	Manifolds of mappings [See also 46T10, 54C35]
3D17 3D19	Manifolds of metrics (esp. Riemannian) Group actions and symmetry properties
3D20	Measures (Gaussian, cylindrical, etc.) on manifolds of maps
	[See also 28Cxx, 46T12]
8D25	Equations in function spaces; evolution equations [See also $34Gxx$,
	35K90, 35L90, 35R15, 37Lxx, 47Jxx]
8D27 8D29	Moduli problems for differential geometric structures Moduli problems for topological structures
3D29 3D30	Applications (in quantum mechanics (Feynman path integrals),
D O O	relativity, fluid dynamics, etc.)
8D99	None of the above, but in this section
\mathbf{BExx}	Variational problems in infinite-dimensional spaces
3E05	Abstract critical point theory (Morse theory, Ljusternik-Schnirelman
3E07	(Lyusternik-Shnirel'man) theory, etc.) Abstract bifurcation theory
8E07 8E09	Group-invariant bifurcation theory
8E10	Applications to the theory of geodesics (problems in one independent
	variable)
8E11	Critical metrics
8E12	Applications to minimal surfaces (problems in two independent variables) [See also 49Q05]

58Exx

58E15	Application to extremal problems in several variables; Yang-Mills
	functionals [See also 81T13], etc.
58E17	Pareto optimality, etc., applications to economics [See also 90C29]
58E20	Harmonic maps [See also 53C43], etc.
58E25	Applications to control theory [See also 49–XX, 93–XX]
58E30	Variational principles
58E35	Variational inequalities (global problems)
	- (0 -)
58E40	Group actions
58E50	Applications
58E99	None of the above, but in this section
58Hxx	Pseudogroups, differentiable groupoids and general structures on
	manifolds
58H05	Pseudogroups and differentiable groupoids [See also 22A22, 22E65]
58H10	Cohomology of classifying spaces for pseudogroup structures
	(Spencer, Gelfand-Fuks, etc.) [See also 57R32]
58H15	Deformations of structures [See also 32Gxx, 58J10]
58H99	None of the above, but in this section
58Jxx	Partial differential equations on manifolds; differential operators
0001111	[See also 32Wxx, 35–XX, 53Cxx]
58J05	Elliptic equations on manifolds, general theory [See also 35–XX]
58J10	Differential complexes [See also 35Nxx]; elliptic complexes
58J15	Relations with hyperfunctions
58J20	Index theory and related fixed point theorems [See also 19K56,
	46L80]
58J22	Exotic index theories [See also $19K56$, $46L05$, $46L10$, $46L80$, $46M20$]
58J26	Elliptic genera
58J28	Eta-invariants, Chern-Simons invariants
58J30	Spectral flows
58J32	Boundary value problems on manifolds
58J35	Heat and other parabolic equation methods
58J37	Perturbations; asymptotics
	· · · ·
58J40	Pseudodifferential and Fourier integral operators on manifolds
	[See also 35Sxx]
58J42	Noncommutative global analysis, noncommutative residues
58J45	Hyperbolic equations [See also 35Lxx]
58J47	Propagation of singularities; initial value problems
58J50	Spectral problems; spectral geometry; scattering theory
	[See also 35Pxx]
58J51	Relations between spectral theory and ergodic theory, e.g. quantum
	unique ergodicity
58J52	Determinants and determinant bundles, analytic torsion
58J53	Isospectrality
58J55	Bifurcation [See also 35B32]
58J60	Relations with special manifold structures (Riemannian, Finsler, etc.)
58J65	Diffusion processes and stochastic analysis on manifolds
HO THO	[See also 35R60, 60H10, 60J60]
58J70	Invariance and symmetry properties [See also 35A30]
58J72	Correspondences and other transformation methods (e.g. Lie-
	Bäcklund) [See also 35A22]
58J90	Applications
58J99	None of the above, but in this section
58Kxx	Theory of singularities and catastrophe theory [See also 32Sxx, 37–
	XX]
58K05	Critical points of functions and mappings
58K10	Monodromy
58K15	Topological properties of mappings
58K15 58K20	Algebraic and analytic properties of mappings
58K20 58K25	Stability
	•
58K30	Global theory
58K35	Catastrophe theory
58K40	Classification; finite determinacy of map germs
58K45	Singularities of vector fields, topological aspects
58K50	Normal forms
58K55	Asymptotic behavior
58 K60	Deformation of singularities
58 K65	Topological invariants
58K70	Symmetries, equivariance
58K99	None of the above, but in this section
58Zxx	Applications to physics
58Z05	Applications to physics
58Z99	None of the above, but in this section
60-XX	PROBABILITY THEORY AND STOCHASTIC PROCESSES {For
	additional applications, see 11Kxx, 62–XX, 90–XX, 91–XX, 92–XX,
	93-XX, 94-XX}
60-00	General reference works (handbooks, dictionaries, bibliographies,
00 00	etc.)
60 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
60-01 60-02	Research exposition (monographs, survey articles)
00-02	
60 - 03	Historical (must also be assigned at least one classification number

60 - 03	Historical	(must	also be	assigned	at least	one classification	number
	from Section	$(n \ 01)$					

60 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
60 - 06	Proceedings, conferences, collections, etc.
60 - 08	Computational methods (not classified at a more specific level)
60Axx	[See also 65C50] Foundations of probability theory
60A05	Axioms; other general questions
60A10	Probabilistic measure theory {For ergodic theory, see 28Dxx and
	60Fxx}
60A86	Fuzzy probability
60A99	None of the above, but in this section
60Bxx 60B05	Probability theory on algebraic and topological structures Probability measures on topological spaces
60B05	Convergence of probability measures
60B10	Probability theory on linear topological spaces [See also 28C20]
60B12	Limit theorems for vector-valued random variables (infinite- dimensional case)
60B15	Probability measures on groups or semigroups, Fourier transforms, factorization
60B20	Random matrices (probabilistic aspects; for algebraic aspects see 15B52)
60B99	None of the above, but in this section
60Cxx	Combinatorial probability
60C05	Combinatorial probability
60C99	None of the above, but in this section
60Dxx	Geometric probability and stochastic geometry [See also 52A22, 53C65]
60D05	Geometric probability and stochastic geometry [See also 52A22, 53C65]
60D99	None of the above, but in this section
60Exx 60E05	Distribution theory [See also 62Exx, 62Hxx] Distributions: general theory
60E07	Infinitely divisible distributions; stable distributions
60E10	Characteristic functions; other transforms
60E15	Inequalities; stochastic orderings
60E99	None of the above, but in this section
60Fxx	Limit theorems [See also 28Dxx, 60B12]
60F05	Central limit and other weak theorems
60F10 60F15	Large deviations Strong theorems
60F15	Functional limit theorems; invariance principles
60F20	Zero-one laws
60F25	L^p -limit theorems
60F99	None of the above, but in this section
60Gxx	Stochastic processes
60G05	Foundations of stochastic processes
60G07 60G09	General theory of processes Exchangeability
60G10	Stationary processes
60G12	General second-order processes
60G15	Gaussian processes
60G17	Sample path properties
60G18	Self-similar processes
60G20	Generalized stochastic processes
60G22 60G25	Fractional processes, including fractional Brownian motion Prediction theory [See also 62M20]
60G30	Continuity and singularity of induced measures
60G35	Signal detection and filtering [See also 62M20, 93E10, 93E11, 94Axx]
60G40	Stopping times; optimal stopping problems; gambling theory
	[See also 62L15, 91A60]
60G42	Martingales with discrete parameter
60G44	Martingales with continuous parameter
$\begin{array}{c} 60\mathrm{G}46\\ 60\mathrm{G}48 \end{array}$	Martingales and classical analysis Generalizations of martingales
60G50	Sums of independent random variables; random walks
60G51	Processes with independent increments; Lévy processes
60G52	Stable processes
60G55	Point processes
60G57	Random measures
60G60 60G70	Random fields Extreme value theory: extremel processes
60G70 60G99	Extreme value theory; extremal processes None of the above, but in this section
60Hxx	Stochastic analysis [See also 58J65]
60H05	Stochastic integrals
60H07	Stochastic calculus of variations and the Malliavin calculus
60H10	Stochastic ordinary differential equations [See also 34F05]
60H15	Stochastic partial differential equations [See also 35R60]
60H20 60H25	Stochastic integral equations Random operators and equations [See also 47B80]
60H30	Applications of stochastic analysis (to PDE, etc.)

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60H35	Computational methods for stochastic equations [See also 65C30]								
60H40	White noise theory								
60H99	None of the above, but in this section Markov processes								
60Jxx	Markov processes								
60J05	Discrete-time Markov processes on general state spaces								
60J10	Markov chains (discrete-time Markov processes on discrete state								
	spaces)								
60J20	Applications of Markov chains and discrete-time Markov processes on general state spaces (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 91D10, 91D35, 91E40]								
60J22	Computational methods in Markov chains [See also 65C40]								
60J25	Continuous-time Markov processes on general state spaces								
60J27	Continuous-time Markov processes on discrete state spaces								
60J28	Applications of continuous-time Markov processes on discrete state								
	spaces								
60J35	Transition functions, generators and resolvents [See also 47D03, 47D07]								
60J40	Right processes								
60J45	Probabilistic potential theory [See also 31Cxx, 31D05]								
60J50	Boundary theory								
60J55	Local time and additive functionals								
60J57	Multiplicative functionals								
60J60	Diffusion processes [See also 58J65]								
60J65	Brownian motion [See also 58J65]								
60J67	Stochastic (Schramm-)Loewner evolution (SLE)								
60J68	Superprocesses								
60J70	Applications of Brownian motions and diffusion theory (population								
00010	genetics, absorption problems, etc.) [See also 92Dxx]								
60J75	Jump processes								
60J80	Branching processes (Galton-Watson, birth-and-death, etc.)								
60J85	Applications of branching processes [See also 92Dxx]								
60J99	None of the above, but in this section								
60Kxx	Special processes								
60K05	Renewal theory								
60K10	Applications (reliability, demand theory, etc.)								
60 K15	Markov renewal processes, semi-Markov processes								
60K20	Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]								
60 K25	Queueing theory [See also 68M20, 90B22]								
60K30	Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]								
60K35	Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]								
60K37	Processes in random environments								
60K40	Other physical applications of random processes								
60K99	None of the above, but in this section								
62-XX	STATISTICS								
62 - 00	General reference works (handbooks, dictionaries, bibliographies, etc.)								
62 - 01	Instructional exposition (textbooks, tutorial papers, etc.)								
62-01	Research exposition (monographs, survey articles)								
62-02 62-03	Historical (must also be assigned at least one classification number								
02-03	from Section 01)								
62 - 04	Explicit machine computation and programs (not the theory of								
02-04	computation or programming)								
62 - 06	Proceedings, conferences, collections, etc.								
62-00 62-07	Data analysis								
62-07 62-09	Graphical methods								
62Axx	Foundational and philosophical topics								
62A01	Foundational and philosophical topics								
62A86	Fuzzy analysis in statistics								
62A99	None of the above, but in this section								
62Bxx	Sufficiency and information								
62B05	Sufficient statistics and fields								
62B10	Information-theoretic topics [See also 94A17]								
62B15	Theory of statistical experiments								
62B86	Fuzziness, sufficiency, and information								
62B99	None of the above, but in this section								
62Cxx	Decision theory [See also 90B50, 91B06; for game theory, see 91A35]								
62C05	General considerations								
62C07	Complete class results								
62C10	Bayesian problems; characterization of Bayes procedures								
62C12	Empirical decision procedures; empirical Bayes procedures								
62C15	Admissibility								
62C20	Minimax procedures								
62C25	Compound decision problems								
62C86	Decision theory and fuzziness								
69000	None of the above but in this section								

62C99 None of the above, but in this section

- 62Dxx Sampling theory, sample surveys 62D05 Sampling theory, sample surveys None of the above, but in this section 62D99 62Exx Distribution theory [See also 60Exx] 62E10 Characterization and structure theory 62E15Exact distribution theory 62E17 Approximations to distributions (nonasymptotic) 62E20 Asymptotic distribution theory 62E86 Fuzziness in connection with the topics on distributions in this section None of the above, but in this section 62E99 Parametric inference 62Fxx Hypothesis testing 62F0362F05Asymptotic properties of tests Ranking and selection 62F0762F10Point estimation Asymptotic properties of estimators 62F1262F15Bayesian inference 62F25Tolerance and confidence regions 62F30 Inference under constraints 62F35Robustness and adaptive procedures 62F40Bootstrap, jackknife and other resampling methods 62F86Parametric inference and fuzziness 62F99 None of the above, but in this section 62Gxx Nonparametric inference 62G05Estimation 62G07Density estimation 62G08Nonparametric regression 62G09Resampling methods 62G10Hypothesis testing 62G15Tolerance and confidence regions 62G20Asymptotic properties 62G30Order statistics; empirical distribution functions 62G32Statistics of extreme values; tail inference 62G35Robustness 62G86Nonparametric inference and fuzziness 62G99None of the above, but in this section Multivariate analysis [See also 60Exx] 62Hxx Characterization and structure theory 62H0562H10 Distribution of statistics 62H11 Directional data; spatial statistics 62H12Estimation 62H15Hypothesis testing 62H17Contingency tables 62H20Measures of association (correlation, canonical correlation, etc.)
 - 62H25 Factor analysis and principal components; correspondence analysis
 - 62H30 Classification and discrimination; cluster analysis [See also 68T10, 91C20]
 - 62H35 Image analysis
 - 62H86 Multivariate analysis and fuzziness
 - 62H99 None of the above, but in this section
 - 62Jxx Linear inference, regression
 - 62J02 General nonlinear regression
 - 62J05 Linear regression
 - 62J07 Ridge regression; shrinkage estimators
 - 62J10 Analysis of variance and covariance
 - 62J12 Generalized linear models
 - 62J15 Paired and multiple comparisons
 - 62J20 Diagnostics
 - 62J86 Fuzziness, and linear inference and regression
 - 62J99 None of the above, but in this section
 - 62Kxx Design of experiments [See also 05Bxx]
 - 62K05 Optimal designs
 - 62K10 Block designs
 - 62K15 Factorial designs
 - 62K20 Response surface designs
 - 62K25 Robust parameter designs
 - 62K86 Fuzziness and design of experiments
 - 62K99 None of the above, but in this section
 - 62Lxx Sequential methods
 - 62L05 Sequential design
 - 62L10 Sequential analysis
 - 62L12 Sequential estimation
 - 62L15 Optimal stopping [See also 60G40, 91A60]
 - 62L20 Stochastic approximation
 - 62L86 Fuzziness and sequential methods
 - 62L99 None of the above, but in this section

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 $\mathbf{S35}$

62Mxx	Inference from stochastic processes
62M02	Markov processes: hypothesis testing
62M05	Markov processes: estimation
62M07	Non-Markovian processes: hypothesis testing
62M09	Non-Markovian processes: estimation
62M10	Time series, auto-correlation, regression, etc. [See also 91B84]
62M15	Spectral analysis
62M10	Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
62M20	Spatial processes
62M30 62M40	Random fields; image analysis
62M40	Neural nets and related approaches
62M45 62M86	
62M80	Inference from stochastic processes and fuzziness None of the above, but in this section
62Ni33	Survival analysis and censored data
62N01	Censored data models
62N01	Estimation
62N02	Testing
62N05	Reliability and life testing [See also 90B25]
62N86	
	Fuzziness, and survival analysis and censored data
62N99 62Pxx	None of the above, but in this section Applications [See also 90–XX, 91–XX, 92–XX]
62P05	Applications to actuarial sciences and financial mathematics
62P10	Applications to biology and medical sciences
62P12	Applications to environmental and related topics
62P15	Applications to psychology
62P20	Applications to economics [See also 91Bxx]
62P25	Applications to social sciences
62P30	Applications in engineering and industry
62P35	Applications to physics
62P99	None of the above, but in this section Statistical tables
62Qxx	Statistical tables
62Q05	
62Q99	None of the above, but in this section
65-XX	NUMERICAL ANALYSIS
65 - 00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
65 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
65 - 02	Research exposition (monographs, survey articles)
65 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
65 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
65 - 05	Experimental papers
65 - 06	Experimental papers Proceedings, conferences, collections, etc.
65–06 65Axx	Experimental papers Proceedings, conferences, collections, etc. Tables
65–06 65Axx 65A05	Experimental papers Proceedings, conferences, collections, etc. Tables Tables
65–06 65Axx 65A05 65A99	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section
65–06 65Axx 65A05 65A99 65Bxx	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence
65–06 65Axx 65A05 65A99 65Bxx 65B05	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10 65B15	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10 65B15	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35}
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20]
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations
65–06 65Avx 65A05 65A99 65Bx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80]
65–06 65A xx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C50	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability
65–06 65A xx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C50 65C60	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics
65-06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C35 65C40 65C40 65C40 65C50 65C40 65C60 65C99	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section
65–06 65Avx 65A05 65A99 65Bx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C20 65C30 65C35 65C40 65C50 65C60	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily
65–06 65Avx 65A05 65A99 65Bx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C20 65C30 65C35 65C40 65C50 65C50 65C50 65C60 65C69 65C99 65Dxx	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx}
65–06 65A xx 65A05 65A99 65Bx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C50 65C40 65C50 65C60 65C99 65Dxx 65D05	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation
65–06 65A xx 65A05 65A99 65Bx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C50 65C60 65C50 65C60 65C99 65Dxx 65D05 65D05 65D07	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines
65–06 65A xx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C50 65C60 65C50 65C60 65C99 65Dxx 65D05 65D07 65D10	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C35 65C40 65C50 65C60 65C99 65Dxx 65D05 65D07 65D10 65D15	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation
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65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C30 65C30 65C30 65C30 65C40 65C50 65C40 65C50 65C40 65C99 65D4 65D05 65D07 65D10 65D15 65D17	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods , simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07]
65–06 65Avx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C35 65C40 65C50 65C60 65C99 65Dxx 65D05 65D07 65D10 65D15	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computer graphics, image analysis, and computational geometry
65–06 65Avx 65A05 65A99 65Bx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C30 65C35 65C40 65C50 65C60 65C50 65C60 65C99 65Dvx 65D05 65D07 65D10 65D15 65D17 65D18	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods , simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computer graphics, image analysis, and computational geometry [See also 51N05, 68U05]
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C35 65C40 65C50 65C60 65C60 65C99 65Dxx 65D05 65D17 65D18 65D19	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods , simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computer graphics, image analysis, and computational geometry [See also 51N05, 68U05] Computational issues in computer and robotic vision
65–06 65Avx 65A05 65A99 65Bx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C20 65C30 65C30 65C35 65C40 65C50 65C60 65C50 65C60 65C99 65Dvx 65D05 65D07 65D10 65D15 65D17 65D18	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods , simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 68U20] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computational issues in computer and robotic vision Computational issues in computer and robotic vision Computation of special functions, construction of tables
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C30 65C30 65C30 65C30 65C40 65C50 65C40 65C50 65C60 65C99 65Dxx 65D05 65D17 65D17 65D18 65D19 65D20	Experimental papers Proceedings, conferences, collections, etc. Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods , simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic differential and integral equations Stochastic differential and integral equations Other computational problems in probability Computational Markov chains Other computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computer graphics, image analysis, and computational geometry [See also 51N05, 68U05] Computational issues in computer and robotic vision Computational issues in computer and robotic vision Computational issues in computer and robotic vision Computation of special functions, construction of tables [See also 33F05]
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C30 65C35 65C40 65C35 65C40 65C50 65C60 65C99 65Dxx 65D05 65D07 65D10 65D15 65D17 65D18 65D19 65D20 65D25	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computational issues in computer and robotic vision Computational jence analysis, and computational geometry [See also 51N05, 68U05] Computational jence and robotic vision Computation of special functions, construction of tables [See also 33F05] Numerical differentiation
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C30 65C35 65C40 65C30 65C40 65C50 65C40 65C50 65C40 65C99 65D4 65D15 65D17 65D18 65D18 65D19 65D25 65D25 65D30	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computer graphics, image analysis, and computational geometry [See also 51N05, 68U05] Computational issues in computer and robotic vision Computational issues in computer and robotic vision Computational of special functions, construction of tables [See also 33F05] Numerical differentiation Numerical integration
65–06 65Axx 65A05 65A99 65Bxx 65B05 65B10 65B15 65B99 65Cxx 65C05 65C10 65C20 65C30 65C35 65C40 65C35 65C40 65C50 65C60 65C99 65Dxx 65D05 65D07 65D10 65D15 65D17 65D18 65D19 65D20 65D25	Experimental papers Proceedings, conferences, collections, etc. Tables Tables Tables None of the above, but in this section Acceleration of convergence Extrapolation to the limit, deferred corrections Summation of series Euler-Maclaurin formula None of the above, but in this section Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35} Monte Carlo methods Random number generation Models, numerical methods [See also 68U20] Stochastic differential and integral equations Stochastic particle methods [See also 82C80] Computational Markov chains Other computational problems in probability Computational problems in statistics None of the above, but in this section Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx} Interpolation Splines Smoothing, curve fitting Algorithms for functional approximation Computer aided design (modeling of curves and surfaces) [See also 68U07] Computational issues in computer and robotic vision Computational jence analysis, and computational geometry [See also 51N05, 68U05] Computational jence and robotic vision Computation of special functions, construction of tables [See also 33F05] Numerical differentiation

65Exx	Numerical methods in complex analysis (potential theory, etc.) $\{For$
	numerical methods in conformal mapping, see also 30C30}
65E05	Numerical methods in complex analysis (potential theory, etc.) {For
65 100	numerical methods in conformal mapping, see also 30C30}
65E99	None of the above, but in this section
65Fxx	Numerical linear algebra
65F05 65F08	Direct methods for linear systems and matrix inversion Preconditioners for iterative methods
65F08 65F10	Iterative methods for linear systems [See also 65N22]
65F10 65F15	Eigenvalues, eigenvectors
65F18	Inverse eigenvalue problems
65F20	Overdetermined systems, pseudoinverses
65F22	Ill-posedness, regularization
65F25	Orthogonalization
65F30	Other matrix algorithms
65F35	Matrix norms, conditioning, scaling [See also 15A12, 15A60]
65 F40	Determinants
65F50	Sparse matrices
65F60	Matrix exponential and similar matrix functions
65F99	None of the above, but in this section
65Gxx	Error analysis and interval analysis
65G20	Algorithms with automatic result verification
65G30	Interval and finite arithmetic
65G40	General methods in interval analysis
65G50	Roundoff error
65G99	None of the above, but in this section
65Hxx	Nonlinear algebraic or transcendental equations
65H04	Roots of polynomial equations
65H05 65H10	Single equations
$65H10 \\ 65H17$	Systems of equations Eigenvalues, eigenvectors [See also 47Hxx, 47Jxx, 58C40, 58E07,
001117	90C30]
65H20	Global methods, including homotopy approaches [See also 58C30,
001120	90C30]
65H99	None of the above, but in this section
65Jxx	Numerical analysis in abstract spaces
65J05	General theory
65J08	Abstract evolution equations
65J10	Equations with linear operators (do not use 65Fxx)
65J15	Equations with nonlinear operators (do not use 65Hxx)
65J20	Improperly posed problems; regularization
65J22	Inverse problems
65J99	None of the above, but in this section
65Kxx	Mathematical programming, optimization and variational techniques
65K05	Mathematical programming methods [See also 90Cxx]
65K10	Optimization and variational techniques [See also 49Mxx, 93B40]
65K15	Numerical methods for variational inequalities and related problems
65K99	None of the above, but in this section
65Lxx	Ordinary differential equations
65L03 65L04	Functional-differential equations Stiff equations
65L04	Initial value problems
65L06	Multistep, Runge-Kutta and extrapolation methods
65L07	Numerical investigation of stability of solutions
65L08	Improperly posed problems
65L09	Inverse problems
65L10	Boundary value problems
65L11	Singularly perturbed problems
65L12	Finite difference methods
65L15	Eigenvalue problems
65L20	Stability and convergence of numerical methods
65L50	Mesh generation and refinement
65L60	Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
65L70	Error bounds
65L80 65L99	Methods for differential-algebraic equations
65L99 65Mxx	None of the above, but in this section Partial differential equations, initial value and time-dependent initial-
OOMIYY	boundary value problems
65M06	Finite difference methods
65M08	Finite volume methods
65M12	Stability and convergence of numerical methods
65M15	Error bounds
65M20	Method of lines
65M22	Solution of discretized equations [See also 65Fxx, 65Hxx]
65M25	Method of characteristics
65M30	Improperly posed problems
65M32	Inverse problems
65M38	Boundary element methods

65M5065M55Multigrid methods; domain decomposition

Mesh generation and refinement

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65M60Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods 65M70Spectral, collocation and related methods 65M75Probabilistic methods, particle methods, etc. Fundamental solutions, Green's function methods, etc. 65M8065M85Fictitious domain methods 65M99None of the above, but in this section 65Nxx Partial differential equations, boundary value problems 65N06Finite difference methods 65N08Finite volume methods 65N12Stability and convergence of numerical methods 65N15Error bounds Ill-posed problems 65N20Inverse problems 65N21Solution of discretized equations [See also 65Fxx, 65Hxx] 65N2265N25Eigenvalue problems Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods 65N30Spectral, collocation and related methods 65N3565N38Boundary element methods 65N40Method of lines 65N45Method of contraction of the boundary 65N50Mesh generation and refinement 65N55Multigrid methods; domain decomposition 65N75Probabilistic methods, particle methods, etc. 65N80Fundamental solutions, Green's function methods, etc. 65N85Fictitious domain methods 65N99None of the above, but in this section 65Pxx Numerical problems in dynamical systems [See also 37Mxx] Hamiltonian systems including symplectic integrators 65P1065P20Numerical chaos 65P30Bifurcation problems 65P40Nonlinear stabilities 65P99None of the above, but in this section 65Qxx Difference and functional equations, recurrence relations 65Q10Difference equations Functional equations 65Q20Recurrence relations 65Q3065Q99 None of the above, but in this section 65Rxx Integral equations, integral transforms 65R10Integral transforms 65R20Integral equations Improperly posed problems 65R3065R32Inverse problems None of the above, but in this section 65R9965Sxx **Graphical methods** 65S05Graphical methods 65S99None of the above, but in this section 65Txx Numerical methods in Fourier analysis 65T40Trigonometric approximation and interpolation 65T50Discrete and fast Fourier transforms 65T60Wavelets 65T99None of the above, but in this section 65Yxx **Computer aspects of numerical algorithms** 65Y04Algorithms for computer arithmetic, etc. [See also 68M07] 65Y05Parallel computation 65Y10 Algorithms for specific classes of architectures Packaged methods 65Y1565Y20Complexity and performance of numerical algorithms [See also 68Q25] 65Y99None of the above, but in this section 65Zxx **Applications to physics** Applications to physics 65Z0565Z99 None of the above, but in this section **COMPUTER SCIENCE** {For papers involving machine 68-XX computations and programs in a specific mathematical area, see Section–04 in that area} 68 - 00General reference works (handbooks, dictionaries, bibliographies, etc.) 68 - 01Instructional exposition (textbooks, tutorial papers, etc.) 68 - 02Research exposition (monographs, survey articles) 68 - 03Historical (must also be assigned at least one classification number from Section 01) 68 - 04Explicit machine computation and programs (not the theory of computation or programming) 68 - 06Proceedings, conferences, collections, etc. 68Mxx **Computer system organization** 68M01 General 68M07 Mathematical problems of computer architecture 68M10 Network design and communication [See also 68R10, 90B18] 68M11 Internet topics [See also 68U35] 68M12 Network protocols

S37

68M14	Distributed systems								
68M15	Reliability, testing and fault tolerance [See also 94C12]								
68M20	Performance evaluation; queueing; scheduling [See also 60K25,								
	90Bxx]								
68M99	None of the above, but in this section								
68Nxx	Software								
68N01	General								
68N15	Programming languages								
68N17	Logic programming								
68N18	Functional programming and lambda calculus [See also 03B40]								
68N19	Other programming techniques (object-oriented, sequential,								
	concurrent, automatic, etc.)								
68N20	Compilers and interpreters								
68N25	Operating systems								
68N30	Mathematical aspects of software engineering (specification,								
	verification, metrics, requirements, etc.)								
68N99	None of the above, but in this section								
68Pxx	Theory of data								
68P01	General								
68P05	Data structures								
68P10	Searching and sorting								
68P15	Database theory								
68P20	Information storage and retrieval								
68P25	Data encryption [See also 94A60, 81P94]								
68P30	Coding and information theory (compaction, compression, models of								
001 00	communication, encoding schemes, etc.) [See also 94Axx]								
68P99	None of the above, but in this section								
68P99 68Qxx	Theory of computing								
-									
68Q01	General Madala of commutation (Their providence at a) [Secolar 02D10								
68Q05	Models of computation (Turing machines, etc.) [See also 03D10,								
00010	68Q12, 81P68]								
68Q10	Modes of computation (nondeterministic, parallel, interactive,								
	probabilistic, etc.) [See also 68Q85]								
68Q12	Quantum algorithms and complexity [See also 68Q05, 81P68]								
68Q15	Complexity classes (hierarchies, relations among complexity classes,								
	etc.) [See also $03D15$, $68Q17$, $68Q19$]								
68Q17	Computational difficulty of problems (lower bounds, completeness,								
	difficulty of approximation, etc.) [See also $68Q15$]								
68Q19	Descriptive complexity and finite models [See also 03C13]								
68Q25	Analysis of algorithms and problem complexity [See also 68W40]								
68Q30	Algorithmic information theory (Kolmogorov complexity, etc.)								
•	[See also 03D32]								
68Q32	Computational learning theory [See also 68T05]								
68Q42	Grammars and rewriting systems								
68Q45	Formal languages and automata [See also 03D05, 68Q70, 94A45]								
68Q55	Semantics [See also 03B70, 06B35, 18C50]								
68Q 60	Specification and verification (program logics, model checking, etc.)								
00200	[See also 03B70]								
68Q65	Abstract data types; algebraic specification [See also 18C50]								
-									
68Q70	Algebraic theory of languages and automata [See also 18B20, 20M35]								
68Q80	Cellular automata [See also 37B15]								
68Q85	Models and methods for concurrent and distributed computing								
	(process algebras, bisimulation, transition nets, etc.)								
68Q87	Probability in computer science (algorithm analysis, random								
	structures, phase transitions, etc.) [See also 68W20, 68W40]								
68Q99	None of the above, but in this section								
68Rxx	Discrete mathematics in relation to computer science								
68R01	General								
68R05	Combinatorics								
68R10	Graph theory (including graph drawing) [See also 05Cxx, 90B10,								
	90B35, 90C35]								
68R15	Combinatorics on words								
68R99	None of the above, but in this section								
68Txx	Artificial intelligence								
68T01	General								
68T05	Learning and adaptive systems [See also 68Q32, 91E40]								
68T10	Pattern recognition, speech recognition {For cluster analysis, see								
00110	62H30}								
68T15	Theorem proving (deduction, resolution, etc.) [See also 03B35]								
68T20	Problem solving (heuristics, search strategies, etc.)								
$\begin{array}{c} 68120\\ 68\mathrm{T}27 \end{array}$	Logic in artificial intelligence								
68T30 68T25	Knowledge representation								
68T35	Languages and software systems (knowledge-based systems, expert								
00000	systems, etc.)								
68T37	Reasoning under uncertainty								
68T40	Robotics [See also 93C85]								
68T42	Agent technology								
68T45	Machine vision and scene understanding								
68T50	Natural language processing [See also 03B65]								

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68T99

None of the above, but in this section

68Uxx

70F45

70F99

Infinite particle systems

None of the above, but in this section

70Gxx

General models, approaches, and methods [See also 37–XX]	

S38

68Uxx	Computing methodologies and applications
68U01	General
68U05	Computer graphics; computational geometry [See also 65D18]
68U07	Computer-aided design [See also 65D17]
68U10	Image processing
68U15	Text processing; mathematical typography
68U20	Simulation [See also 65Cxx]
68U35	Information systems (hypertext navigation, interfaces, decision
	support, etc.) [See also 68M11]
68U99	None of the above, but in this section
68Wxx	Algorithms {For numerical algorithms, see 65-XX; for combinatorics
	and graph theory, see 05C85, 68Rxx}
68W01	General
68W05	Nonnumerical algorithms
68W10	Parallel algorithms
68W15	Distributed algorithms
68W20	Randomized algorithms
68W25	Approximation algorithms
68W27	Online algorithms
68W30	Symbolic computation and algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16Z05, 17–08, 33F10]
68W32	Algorithms on strings
68W35	VLSI algorithms
68W40	Analysis of algorithms [See also 68Q25]
68W99	None of the above, but in this section
70–XX	MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX}
70-00	General reference works (handbooks, dictionaries, bibliographies, etc.)
70 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
70 - 02	Research exposition (monographs, survey articles)
70 - 03	Historical (must also be assigned at least one classification number from Section 01)
70-04	Explicit machine computation and programs (not the theory of
10 04	computation or programming)
70 - 05	Experimental work
70-06	Proceedings, conferences, collections, etc.
70-08	Computational methods
70Axx	Axiomatics, foundations
70A05	Axiomatics, foundations
70A99	None of the above, but in this section
70Bxx	Kinematics [See also 53A17]
70B05	Kinematics of a particle
70B10	Kinematics of a rigid body
70B15	Mechanisms, robots [See also $68T40$, $70Q05$, $93C85$]
70B99	None of the above, but in this section
70Cxx	Statics
70C20	Statics
70C99	None of the above, but in this section
70Exx	Dynamics of a rigid body and of multibody systems
70E05	Motion of the gyroscope
70E15 70E17	Free motion of a rigid body [See also 70M20]
70E17 70E18	Motion of a rigid body with a fixed point Motion of a rigid body in contact with a solid surface
70E18	Motion of a rigid body in contact with a solid surface [See also 70F25]
70E20	Perturbation methods for rigid body dynamics
70E40	Integrable cases of motion
70E45	Higher-dimensional generalizations
70E50	Stability problems
70E55	Dynamics of multibody systems
70E60	Robot dynamics and control [See also 68T40, 70Q05, 93C85]
70E99	None of the above, but in this section
70Fxx	Dynamics of a system of particles, including celestial mechanics
70F05	Two-body problems
70F07	Three-body problems
70F10	<i>n</i> -body problems
70F15	Celestial mechanics
70F16	Collisions in celestial mechanics, regularization
70F17	Inverse problems
70F20	Holonomic systems
70F25	Nonholonomic systems
70F35 70F40	Collision of rigid or pseudo-rigid bodies Problems with friction
101 40	I TODOUID WITH ITTOTOH

70G10	Generalized coordinates; event, impulse-energy, configuration, state,
70040	or phase space
$70\mathrm{G}40$ $70\mathrm{G}45$	Topological and differential-topological methods Differential-geometric methods (tensors, connections, symplectic,
10040	Poisson, contact, Riemannian, nonholonomic, etc.) [See also 53Cxx,
	53Dxx, 58Axx]
70G55	Algebraic geometry methods
70G60	Dynamical systems methods
70G65	Symmetries, Lie-group and Lie-algebra methods
70G70	Functional-analytic methods
70G75	Variational methods
70G99 70Hxx	None of the above, but in this section Hamiltonian and Lagrangian mechanics [See also 37Jxx]
70H03	Lagrange's equations
70H05	Hamilton's equations
70H06	Completely integrable systems and methods of integration
70 H07	Nonintegrable systems
70H08	Nearly integrable Hamiltonian systems, KAM theory
70H09	Perturbation theories
70H11 70H12	Adiabatic invariants Derivatio and almost periodic solutions
70H12 70H14	Periodic and almost periodic solutions Stability problems
70H14 70H15	Canonical and symplectic transformations
70H20	Hamilton-Jacobi equations
70H25	Hamilton's principle
70H30	Other variational principles
70H33	Symmetries and conservation laws, reverse symmetries, invariant
7011 40	manifolds and their bifurcations, reduction
70H40 70H45	Relativistic dynamics Constrained dynamics Dirac's theory of constraints [See also 70E20]
70843	Constrained dynamics, Dirac's theory of constraints [See also 70F20, 70F25, 70Gxx]
70 H 50	Higher-order theories
70H99	None of the above, but in this section
70Jxx	Linear vibration theory
70J10	Modal analysis
70J25	Stability
70J30 70J25	Free motions
70J35 70J40	Forced motions Parametric resonances
70J50	Systems arising from the discretization of structural vibration
	problems
70J99	None of the above, but in this section
70Kxx	Nonlinear dynamics [See also 34Cxx, 37–XX]
70K05	Phase plane analysis, limit cycles
70K20 70K25	Stability Free motions
70K25 70K28	Parametric resonances
70K30	Nonlinear resonances
70K40	Forced motions
70K42	Equilibria and periodic trajectories
70K43	Quasi-periodic motions and invariant tori
70K44 70K45	Homoclinic and heteroclinic trajectories
70K45 70K50	Normal forms Bifurcations and instability
70K55	Transition to stochasticity (chaotic behavior) [See also 37D45]
70K60	General perturbation schemes
$70 { m K65}$	Averaging of perturbations
$70 \mathrm{K} 70$	Systems with slow and fast motions
70K75	Nonlinear modes
70K99	None of the above, but in this section
70Lxx 70L05	Random vibrations [See also 74H50] Random vibrations [See also 74H50]
70L05 70L99	None of the above, but in this section
70Mxx	Orbital mechanics
70M20	Orbital mechanics
70M99	None of the above, but in this section
70Pxx	Variable mass, rockets
70P05	Variable mass, rockets
70P99 70Qxx	None of the above, but in this section Control of mechanical systems [See also 60Gxx, 60Jxx]
70Qxx 70Q05	Control of mechanical systems [See also 60Gxx, 60Jxx] Control of mechanical systems [See also 60Gxx, 60Jxx]
70Q09 70Q99	None of the above, but in this section
70Sxx	Classical field theories [See also 37Kxx, 37Lxx, 78-XX, 81Txx, 83-
	XX]
70S05	Lagrangian formalism and Hamiltonian formalism

70S10 Symmetries and conservation laws

70S15 Yang-Mills and other gauge theories

70S20 More general nonquantum field theories

70S99 None of the above, but in this section

[Source Date: Monday 12 October 2009 21:56]

74G55

Qualitative behavior of solutions

74–XX	MECHANICS OF DEFORMABLE SOLIDS
74-00	General reference works (handbooks, dictionaries, bibliographies,
74-00	
F 4 01	etc.)
74-01	Instructional exposition (textbooks, tutorial papers, etc.)
74-02	Research exposition (monographs, survey articles)
74-03	Historical (must also be assigned at least one classification number
	from Section 01)
74 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
74 - 05	Experimental work
74-06	Proceedings, conferences, collections, etc.
74Axx	Generalities, axiomatics, foundations of continuum mechanics of
1444	solids
74405	Kinematics of deformation
74A05	
74A10	Stress
74A15	Thermodynamics
74A20	Theory of constitutive functions
74A25	Molecular, statistical, and kinetic theories
74A30	Nonsimple materials
74A35	Polar materials
74A40	Random materials and composite materials
74A45	Theories of fracture and damage
74A50	Structured surfaces and interfaces, coexistent phases
74A55	Theories of friction (tribology)
	Micromechanical theories
74A60	Reactive materials
74A65	
74A99	None of the above, but in this section
74Bxx	Elastic materials
74B05	Classical linear elasticity
74B10	Linear elasticity with initial stresses
74B15	Equations linearized about a deformed state (small deformations
	superposed on large)
74B20	Nonlinear elasticity
74B99	None of the above, but in this section
74Cxx	Plastic materials, materials of stress-rate and internal-variable type
74C05	Small-strain, rate-independent theories (including rigid-plastic and
11000	elasto-plastic materials)
74C10	Small-strain, rate-dependent theories (including theories of
74010	
74015	viscoplasticity)
74C15	Large-strain, rate-independent theories (including nonlinear
F (G a)	plasticity)
74C20	Large-strain, rate-dependent theories
74C99	None of the above, but in this section
74Dxx	Materials of strain-rate type and history type, other materials with
	memory (including elastic materials with viscous damping, various
	viscoelastic materials)
74D05	Linear constitutive equations
74D10	Nonlinear constitutive equations
74D99	None of the above, but in this section
74Exx	Material properties given special treatment
74E05	Inhomogeneity
$74\mathrm{E}10$	Anisotropy
$74\mathrm{E}15$	Crystalline structure
74E20	Granularity
74E25	Texture
74E20 74E30	Composite and mixture properties
	Random structure
$74\mathrm{E}35$ $74\mathrm{E}40$	Chemical structure
74E99	None of the above, but in this section
74Fxx	Coupling of solid mechanics with other effects
74F05	Thermal effects
74F10	Fluid-solid interactions (including aero- and hydro-elasticity, porosity,
	etc.)
74F15	Electromagnetic effects
74F20	Mixture effects
74F25	Chemical and reactive effects
74F99	None of the above, but in this section
74Gxx	Equilibrium (steady-state) problems
74G05	Explicit solutions
74G10	Analytic approximation of solutions (perturbation methods,
11010	asymptotic methods, series, etc.)
74G15	Numerical approximation of solutions
74G15 74G20	Local existence of solutions (near a given solution)
	Global existence of solutions (near a given solution)
74G25	
74G30	Uniqueness of solutions
74G35	Multiplicity of solutions
74G40	Regularity of solutions
74G45	Bounds for solutions
74G50	Saint-Venant's principle
74G55	Qualitative behavior of solutions

74G60	Bifurcation and buckling
74G65	Energy minimization
74G70	Stress concentrations, singularities
74G75	Inverse problems
74G99	None of the above, but in this section
74Hxx	Dynamical problems
74H05	Explicit solutions
74H105 74H10	Analytic approximation of solutions (perturbation methods,
741110	asymptotic methods, series, etc.)
74H15	Numerical approximation of solutions
74H20	Existence of solutions
74H25	Uniqueness of solutions
74H30	Regularity of solutions
74H35	Singularities, blowup, stress concentrations
74H40	Long-time behavior of solutions
74H45	Vibrations
74 H50	Random vibrations
74H55	Stability
74 H60	Dynamical bifurcation
74 H65	Chaotic behavior
74 H99	None of the above, but in this section
74Jxx	Waves
74J05	Linear waves
74J10	Bulk waves
74J15	Surface waves
74J20	Wave scattering
74J25	Inverse problems
74J30	Nonlinear waves
74J35	Solitary waves
	•
74J40	Shocks and related discontinuities
74J99	None of the above, but in this section
74Kxx	Thin bodies, structures
74K05	Strings
74K10	Rods (beams, columns, shafts, arches, rings, etc.)
74K15	Membranes
74K20	Plates
74K25	Shells
74K30	Junctions
74K35	Thin films
74K99	None of the above, but in this section
74Lxx	Special subfields of solid mechanics
74L05	Geophysical solid mechanics [See also 86–XX]
74L10	Soil and rock mechanics
74L15	Biomechanical solid mechanics [See also 92C10]
74L99	None of the above, but in this section
74Mxx	Special kinds of problems
74M05	
74M10	CONTROL SWITCHES AND DEVICES L'SMATT MATERIAIS' LISEE ALSO VAL VVL
	Control, switches and devices ("smart materials") [See also 93Cxx] Friction
741/115	Friction
74M15 74M20	Friction Contact
74M20	Friction Contact Impact
$\begin{array}{c} 74\mathrm{M20} \\ 74\mathrm{M25} \end{array}$	Friction Contact Impact Micromechanics
74M20 74M25 74M99	Friction Contact Impact Micromechanics None of the above, but in this section
$\begin{array}{c} 74\mathrm{M20} \\ 74\mathrm{M25} \end{array}$	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26,
74M20 74M25 74M99 74Nxx	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26]
74M20 74M25 74M99 74Nxx 74N05	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals
74M20 74M25 74M99 74Nxx 74N05 74N10	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N20 74N25 74N30 74N99	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx]
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N29 74Pxx 74P05	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74N99 74Pxx 74P05 74P10	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P20	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N20 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P20 74P99	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N29 74Pxx 74P05 74P05 74P10 74P15 74P20 74P99 74Qxx	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section Homogenization, determination of effective properties
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P10 74P15 74P20 74P99 74Qxx 74Q05	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P10 74P15 74P20 74P99 74Qxx 74Q05 74Q10	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems Homogenization and oscillations in dynamical problems
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74P99 74Pxx 74P05 74P10 74P15 74P05 74P10 74P15 74P20 74P99 74Qxx 74Q05 74Q10 74Q15	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems Homogenization and oscillations in dynamical problems Effective constitutive equations
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P10 74P15 74P20 74P99 74Qxx 74Q05 74Q10 74Q15 74Q20	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems Homogenization and oscillations in dynamical problems Effective constitutive equations Bounds on effective properties
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N20 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P10 74P15 74P20 74P99 74Qxx 74Q05 74Q10 74Q15 74Q20 74Q99	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems Homogenization and oscillations in dynamical problems Effective constitutive equations Bounds on effective properties None of the above, but in this section
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N20 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P10 74P15 74P20 74P99 74Qxx 74Q05 74Q10 74Q15 74Q20 74Q99 74Rxx	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods Mone of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems Homogenization and oscillations in dynamical problems Effective constitutive equations Bounds on effective properties None of the above, but in this section Fracture and damage
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N30 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P10 74P15 74P20 74P99 74Qxx 74Q05 74Q10 74Q15 74Q10 74Q20 74Q99 74Rxx 74R05	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods None of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems Homogenization and oscillations in dynamical problems Effective constitutive equations Bounds on effective properties None of the above, but in this section Fracture and damage Brittle damage
74M20 74M25 74M99 74Nxx 74N05 74N10 74N15 74N20 74N25 74N20 74N25 74N30 74N99 74Pxx 74P05 74P10 74P15 74P10 74P15 74P20 74P99 74Qxx 74Q05 74Q10 74Q15 74Q20 74Q99 74Rxx	Friction Contact Impact Micromechanics None of the above, but in this section Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26] Crystals Displacive transformations Analysis of microstructure Dynamics of phase boundaries Transformations involving diffusion Problems involving hysteresis None of the above, but in this section Optimization [See also 49Qxx] Compliance or weight optimization Optimization of other properties Topological methods Geometrical methods Mone of the above, but in this section Homogenization, determination of effective properties Homogenization in equilibrium problems Homogenization and oscillations in dynamical problems Effective constitutive equations Bounds on effective properties None of the above, but in this section Fracture and damage

[Source Date: Monday 12 October 2009 21:56]

74R20

74R99

Anelastic fracture and damage

None of the above, but in this section

74Sxx	Numerical methods [See also 65-XX, 74G15, 74H15]
74S05	Finite element methods
74S10	Finite volume methods
74S15	Boundary element methods
$\begin{array}{c} 74S20 \\ 74S25 \end{array}$	Finite difference methods
74525 74S30	Spectral and related methods Other numerical methods
74350 74S60	Stochastic methods
74300 74S70	Complex variable methods
74S99	None of the above, but in this section
76–XX	FLUID MECHANICS {For general continuum mechanics, see 74Axx, or other parts of 74–XX}
76 - 00	General reference works (handbooks, dictionaries, bibliographies,
10 00	etc.)
76 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
76 - 02	Research exposition (monographs, survey articles)
76 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
76 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
76 - 05	Experimental work
76-06	Proceedings, conferences, collections, etc.
76Axx	Foundations, constitutive equations, rheology
76A02	Foundations of fluid mechanics
76A05	Non-Newtonian fluids Viscoelastic fluids
$\begin{array}{c} 76A10 \\ 76A15 \end{array}$	Liquid crystals [See also 82D30]
76A20	Thin fluid films
76A25	Superfluids (classical aspects)
76A99	None of the above, but in this section
76Bxx	Incompressible inviscid fluids
76B03	Existence, uniqueness, and regularity theory [See also 35Q35]
76B07	Free-surface potential flows
76B10	Jets and cavities, cavitation, free-streamline theory, water-entry
_	problems, airfoil and hydrofoil theory, sloshing
76B15	Water waves, gravity waves; dispersion and scattering, nonlinear
76000	interaction [See also 35Q30]
$\begin{array}{c} 76B20 \\ 76B25 \end{array}$	Ship waves Solitary waves [See also 35C11]
76B25 76B45	Capillarity (surface tension) [See also 76D45]
76B47	Vortex flows
76B55	Internal waves
76B60	Atmospheric waves [See also 86A10]
76B65	Rossby waves [See also 86A05, 86A10]
76B70	Stratification effects in inviscid fluids
76B75	Flow control and optimization [See also 49Q10, 93C20, 93C95]
76B99	None of the above, but in this section
76Dxx	Incompressible viscous fluids
76D03	Existence, uniqueness, and regularity theory [See also 35Q30]
76D05	Navier-Stokes equations [See also 35Q30]
76D06	Statistical solutions of Navier-Stokes and related equations
76D07	[See also 60H30, 76M35] Stokes and related (Oseen, etc.) flows
76D08	Lubrication theory
76D09	Viscous-inviscid interaction
76D10	Boundary-layer theory, separation and reattachment, higher-order
	effects
76D17	Viscous vortex flows
76D25	Wakes and jets
76D27	Other free-boundary flows; Hele-Shaw flows
76D33	Waves
76D45	Capillarity (surface tension) [See also 76B45]
76D50	Stratification effects in viscous fluids
76D55	Flow control and optimization [See also 49Q10, 93C20, 93C95]
76D99 76Exx	None of the above, but in this section Hydrodynamic stability
76EXX 76E05	Parallel shear flows
76E05 76E06	Convection
76E00 76E07	Rotation
76E09	Stability and instability of nonparallel flows
76E15	Absolute and convective instability and stability
76E17	Interfacial stability and instability
76 E 19	Compressibility effects
76E20	Stability and instability of geophysical and astrophysical flows
76E25	Stability and instability of magnetohydrodynamic and
	electrohydrodynamic flows
76E30	Nonlinear effects

101100	Nominical checus
76E99	None of the above, but in this section

76Fxx	Turbulence [See also 37–XX, 60Gxx, 60Jxx]
76F02 76F05	Fundamentals
76F05 76F06	Isotropic turbulence; homogeneous turbulence Transition to turbulence
76F06 76F10	Shear flows
76F20	Dynamical systems approach to turbulence [See also 37–XX]
76F25	Turbulent transport, mixing
76F30	Renormalization and other field-theoretical methods [See also 81T99]
76F35	Convective turbulence [See also 76E15, 76Rxx]
76F40	Turbulent boundary layers
76F45	Stratification effects
76F50	Compressibility effects
76F55	Statistical turbulence modeling [See also 76M35]
76F60	k - ε modeling
76F65	Direct numerical and large eddy simulation of turbulence
76F70	Control of turbulent flows
76F99	None of the above, but in this section
76Gxx	General aerodynamics and subsonic flows
76G25	General aerodynamics and subsonic flows
76G99	None of the above, but in this section \mathbf{T}
76Hxx	Transonic flows
76H05 76H00	Transonic flows
76H99 76Jxx	None of the above, but in this section Supersonic flows
76J20	Supersonic flows
76J99	None of the above, but in this section
76Kxx	Hypersonic flows
76K05	Hypersonic flows
76K99	None of the above, but in this section
76Lxx	Shock waves and blast waves [See also 35L67]
76L05	Shock waves and blast waves [See also 35L67]
76L99	None of the above, but in this section
76Mxx	Basic methods in fluid mechanics [See also 65–XX]
76M10	Finite element methods
76M12	Finite volume methods
76M15	Boundary element methods
76M20	Finite difference methods
76M22	Spectral methods
76M23	Vortex methods
76M25	Other numerical methods
76M27	Visualization algorithms
76M28	Particle methods and lattice-gas methods
76M30	Variational methods
76M35	Stochastic analysis
76M40 76M45	Complex-variables methods
$76\mathrm{M}45$ $76\mathrm{M}50$	Asymptotic methods, singular perturbations
76M50 76M55	Homogenization Dimensional analysis and similarity
76M60	Symmetry analysis, Lie group and algebra methods
76M99	None of the above, but in this section
76Nxx	Compressible fluids and gas dynamics, general
76N10	Existence, uniqueness, and regularity theory [See also 35L60, 35L65,
	35Q30]
76N15	Gas dynamics, general
76N17	Viscous-inviscid interaction
76N20	Boundary-layer theory
76N25	Flow control and optimization
76N99	None of the above, but in this section
76Pxx	Rarefied gas flows, Boltzmann equation [See also 82B40, 82C40,
	82D05]
76P05	Rarefied gas flows, Boltzmann equation [See also 82B40, 82C40,
	82D05]
76P99	None of the above, but in this section
76Qxx	Hydro- and aero-acoustics
76Q05	Hydro- and aero-acoustics
76Q99 76Rxx	None of the above, but in this section Diffusion and convection
76R05	Forced convection
76R05 76R10	Free convection
76R10 76R50	Diffusion [See also 60J60]
76R99	None of the above, but in this section
76Sxx	Flows in porous media; filtration; seepage
76S05	Flows in porous media; filtration; seepage
76S99	None of the above, but in this section
76Txx	Two-phase and multiphase flows
76T10	Liquid-gas two-phase flows, bubbly flows
76T15	Dusty-gas two-phase flows
76T20	Suspensions
76T25	Granular flows [See also 74C99, 74E20]
76T30	Three or more component flows

76T99	None of the above, but in this section	80-XX
76Uxx 76U05	Rotating fluids Rotating fluids	80-00
76U99	None of the above, but in this section	
76Vxx	Reaction effects in flows [See also 80A32]	80-01
76V05	Reaction effects in flows [See also 80A32]	80-02
76V99	None of the above, but in this section	80 - 03
76Wxx	Magnetohydrodynamics and electrohydrodynamics	80-04
76W05	Magnetohydrodynamics and electrohydrodynamics	80-04
76W99	None of the above, but in this section	80-05
76Xxx	Ionized gas flow in electromagnetic fields; plasmic flow	80-06
	[See also 82D10]	80Axx
76X05	Ionized gas flow in electromagnetic fields; plasmic flow	80A05
	[See also 82D10]	80A10
76X99	None of the above, but in this section	80A17
76Yxx	Quantum hydrodynamics and relativistic hydrodynamics	80A20
	[See also 82D50, 83C55, 85A30]	80A22
76Y05	Quantum hydrodynamics and relativistic hydrodynamics	80A23
	[See also $82D50, 83C55, 85A30$]	80A25
76Y99	None of the above, but in this section	80A30
76Zxx	Biological fluid mechanics [See also 74F10, 74L15, 92Cxx]	80A32
76Z05	Physiological flows [See also 92C35]	80A50
76Z10	Biopropulsion in water and in air	80A99
76Z99	None of the above, but in this section	80Mxx 80M10
78-XX	OPTICS, ELECTROMAGNETIC THEORY {For quantum optics,	80M10 80M12
	see 81V80}	80M12
78 - 00	General reference works (handbooks, dictionaries, bibliographies,	80M10 80M20
	etc.)	80M20
78 - 01	Instructional exposition (textbooks, tutorial papers, etc.)	80M25
78 - 02	Research exposition (monographs, survey articles)	80M30
78 - 03	Historical (must also be assigned at least one classification number	80M31
	from Section 01)	80M35
78 - 04	Explicit machine computation and programs (not the theory of	80M40
	computation or programming)	80 M 50
78 - 05	Experimental work	80M99
78-06	Proceedings, conferences, collections, etc.	81–XX
78Axx	General	81-00
78A02	Foundations	0- 00
78A05	Geometric optics	81 - 01
78A10	Physical optics	81 - 02
78A15	Electron optics	81 - 03
78A20	Space charge waves	
78A25	Electromagnetic theory, general	81 - 04
78A30	Electro- and magnetostatics	
78A35	Motion of charged particles	81-05
78A37	Ion traps	81-06
78A40	Waves and radiation	81–08 81 D
78A45	Diffraction, scattering [See also $34E20$ for WKB methods]	81Pxx 81P05
78A46	Inverse scattering problems	81P10
78A48	Composite media; random media	011 10
78A50	Antennas, wave-guides	81P13
78A55	Technical applications	81P15
78A57	Electrochemistry	81P16
78A60	Lasers, masers, optical bistability, nonlinear optics [See also $81V80$]	81P20
78A70	Biological applications [See also 91D30, 92C30]	81P40
78A97	Mathematically heuristic optics and electromagnetic theory (must	81P45
	also be assigned at least one other classification number in this	
	section)	81P50
78A99	Miscellaneous topics	81P68
78Mxx	Basic methods	81P70
78M05	Method of moments	81P94
78M10	Finite element methods	81P99
78M12	Finite volume methods, finite integration techniques	81Qxx 81Q05
78M15	Boundary element methods	81603
78M16	Multipole methods	81Q10
78M20	Finite difference methods	01-010
78M22	Spectral methods	81Q12
78M25	Other numerical methods	81Q15
78M30	Variational methods	81Q20
78M31	Monte Carlo methods	81Q30
78M32	Neural and heuristic methods	-
78M34	Model reduction	81Q35
78M35	Asymptotic analysis	
78M40	Homogenization	81Q37
78M50	Optimization	81Q40
78M99	None of the above, but in this section	81Q50

	thermodynamics of solids, see 74A15}
80 - 00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
80 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
80 - 02	Research exposition (monographs, survey articles)
80 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
80 - 04	Explicit machine computation and programs (not the theory of
00 01	computation or programming)
80 - 05	Experimental work
80-06	Proceedings, conferences, collections, etc.
80Axx	Thermodynamics and heat transfer
80A05	Foundations
80A10	Classical thermodynamics, including relativistic
80A17	Thermodynamics of continua [See also 74A15]
80A20	Heat and mass transfer, heat flow
80A22	Stefan problems, phase changes, etc. [See also 74Nxx]
80A23	Inverse problems
80A25	Combustion
80A30	Chemical kinetics [See also 76V05, 92C45, 92E20]
80A32	Chemically reacting flows [See also 92C45, 92E20]
80A50	Chemistry (general) [See mainly 92Exx]
80A99	None of the above, but in this section
80Mxx	Basic methods
80M10	Finite element methods
80M12	Finite volume methods
80M15	Boundary element methods
80M20	Finite difference methods
80M22	Spectral methods
80M25	Other numerical methods
80M30	Variational methods
80M31	Monte Carlo methods
80M35	Asymptotic analysis
80M40	Homogenization
$80{ m M}50$	Optimization
80M99	None of the above, but in this section
a VV	
81–XX	QUANTUM THEORY General reference works (handbooks, dictionaries, bibliographies,
81 - 00	Vreneral reference works inanonooks ofchonaries piphographies
	etc.)
81-01	etc.) Instructional exposition (textbooks, tutorial papers, etc.)
$\begin{array}{c} 81 - 01 \\ 81 - 02 \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)
81-01	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number
$\begin{array}{c} 81-01\\ 81-02\\ 81-03 \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01)
$\begin{array}{c} 81 - 01 \\ 81 - 02 \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of
81-01 81-02 81-03 81-04	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming)
81-01 81-02 81-03 81-04 81-05	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers
$81-01 \\ 81-02 \\ 81-03 \\ 81-04 \\ 81-05 \\ 81-06 \\$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc.
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ 81-04\\ 81-04\\ 81-06\\ 81-08\\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods
81-01 81-02 81-03 81-04 81-04 81-05 81-06 81-08 81Pxx	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical
81-01 81-02 81-03 81-04 81-04 81-05 81-06 81-08 81Pxx	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15]
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P13	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16 81P20	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics)
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \end{array}\\ \begin{array}{c} 81-05\\ 81-06\\ 81-08\\ \end{array}\\ \begin{array}{c} 81Pxx\\ 81P05\\ 81P10\\ \end{array}\\ \begin{array}{c} 81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16 81P20	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15,
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ 81-05\\ 81-06\\ 81-08\\ \textbf{81Pxx}\\ 81P05\\ 81P10\\ \end{array}\\ \begin{array}{c} 81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ 81P45\\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17]
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \hline\\ 81-06\\ 81-06\\ 81-08\\ \hline\\ 81P05\\ 81P10\\ \hline\\ 81P13\\ 81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ 81P40\\ 81P45\\ \hline\end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \hline\\81-06\\ 81-06\\ 81-08\\ \hline\\81P05\\ 81P10\\ \hline\\81P13\\ 81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ 81P45\\ \hline\\81P50\\ 81P50\\ 81P68\\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12]
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \hline\\81-06\\ 81-06\\ 81-08\\ \hline\\81P05\\ 81P05\\ 81P10\\ \hline\\81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ 81P45\\ \hline\\81P50\\ 81P68\\ 81P70\\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general)
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \hline\\81-06\\ 81-08\\ \hline\\81-08\\ \hline\\81P05\\ 81P10\\ \\\hline\\81P10\\ \\\hline\\81P15\\ 81P16\\ \\81P20\\ \\81P40\\ \\81P45\\ \\\hline\\81P50\\ \\81P68\\ \\81P70\\ \\81P94\\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general) Quantum cryptography [See also 94A60]
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16 81P20 81P40 81P45 81P50 81P68 81P70 81P94 81P99	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general) Quantum cryptography [See also 94A60] None of the above, but in this section
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16 81P20 81P40 81P40 81P45 81P50 81P68 81P70 81P94 81P99 81Qxx	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general) Quantum cryptography [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16 81P20 81P40 81P45 81P50 81P68 81P70 81P94 81P99	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general) Quantum cryptography [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein-
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16 81P20 81P40 81P40 81P45 81P50 81P50 81P94 81P99 81Qxx 81Q05	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general) Quantum coding (general) Quantum coding stochastic in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum mechanics
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P15 81P16 81P20 81P40 81P40 81P45 81P50 81P68 81P70 81P94 81P99 81Qxx	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum computation [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum mechanics Selfadjoint operator theory in quantum theory, including spectral
	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general) Quantum cryptography [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum mechanics Selfadjoint operator theory in quantum theory, including spectral analysis
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \end{array}\\ \begin{array}{c} 81-05\\ 81-06\\ 81-08\\ \end{array}\\ \begin{array}{c} 81Pxx\\ 81P05\\ 81P10\\ \end{array}\\ \begin{array}{c} 81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ 81P45\\ \end{array}\\ \begin{array}{c} 81P50\\ 81P68\\ 81P70\\ 81P68\\ 81P70\\ 81P94\\ 81P99\\ \begin{array}{c} 81Q12\\ \end{array}\end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum computation [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum mechanics Selfadjoint operator theory in quantum theory
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \hline\\ 81-05\\ 81-06\\ 81-08\\ \hline\\ 81P05\\ 81P05\\ 81P10\\ \hline\\ 81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ 81P45\\ \hline\\ 81P50\\ 81P40\\ 81P45\\ \hline\\ 81P50\\ 81P68\\ 81P70\\ 81P94\\ 81P99\\ \hline\\ 81Q12\\ 81Q12\\ 81Q15\\ \hline\end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum conputation [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum theory, including spectral analysis Non-selfadjoint operator theory in quantum theory Perturbation theories for operators and differential equations
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \end{array}\\ \begin{array}{c} 81-05\\ 81-06\\ 81-08\\ \end{array}\\ \begin{array}{c} 81Pxx\\ 81P05\\ 81P10\\ \end{array}\\ \begin{array}{c} 81P13\\ 81P15\\ 81P16\\ 81P20\\ 81P40\\ 81P45\\ \end{array}\\ \begin{array}{c} 81P50\\ 81P68\\ 81P70\\ 81P68\\ 81P70\\ 81P94\\ 81P99\\ \begin{array}{c} 81Q12\\ \end{array}\end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum computation [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum mechanics Selfadjoint operator theory in quantum theory
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \end{array}\\ 81-04\\ 81-05\\ 81-06\\ 81-08\\ \\ 81P05\\ 81P10\\ \\ 81P15\\ 81P10\\ \\ 81P40\\ 81P40\\ \\ 81P40\\ \\ 81P40\\ \\ 81P40\\ \\ 81P99\\ \\ 81Q10\\ \\ 81Q12\\ \\ 81Q15\\ \\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum state estimation, approximate cloning Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum conputation [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum theory, including spectral analysis Non-selfadjoint operator theory in quantum theory Perturbation theories for operators and differential equations Semiclassical techniques, including WKB and Maslov methods
$\begin{array}{c} 81-01\\ 81-02\\ 81-03\\ \end{array}\\ 81-04\\ \end{array}\\ 81-04\\ 81-05\\ 81-06\\ 81-08\\ \\ 81P05\\ 81P10\\ \\ 81P15\\ 81P10\\ \\ 81P40\\ 81P40\\ \\ 81P40\\ \\ 81P40\\ \\ 81P40\\ \\ 81P99\\ \\ 81Q10\\ \\ 81Q12\\ \\ 81Q15\\ \\ \end{array}$	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum coherence, entanglement, quantum correlations Quantum information, communication, networks [See also 94A15, 94A17] Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum coding (general) Quantum coding (general) Quantum coding (general) Quantum coding the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum mechanics Selfadjoint operator theory in quantum theory Perturbation theories for operators and differential equations Semiclassical techniques, including WKB and Maslov methods Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
81-01 81-02 81-03 81-04 81-05 81-06 81-08 81Pxx 81P05 81P10 81P13 81P13 81P15 81P10 81P40 81Q10 81Q12 81Q20 81Q30	etc.) Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number from Section 01) Explicit machine computation and programs (not the theory of computation or programming) Experimental papers Proceedings, conferences, collections, etc. Computational methods Axiomatics, foundations, philosophy General and philosophical Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15] Contextuality Quantum measurement theory Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum state spaces, operational and probabilistic concepts Stochastic mechanics (including stochastic electrodynamics) Quantum state estimation, approximate cloning Quantum state estimation, approximate cloning Quantum computation [See also 68Q05, 68Q12] Quantum computation [See also 94A60] None of the above, but in this section General mathematical topics and methods in quantum theory Closed and approximate solutions to the Schrödinger, Dirac, Klein- Gordon and other equations of quantum theory, including spectral analysis Non-selfadjoint operator theory in quantum theory Perturbation theories for operators and differential equations Semiclassical techniques, including WKB and Maslov methods Feynman integrals and graphs; applications of algebraic topology a

CLASSICAL THERMODYNAMICS, HEAT TRANSFER {For

- 81Q37 Quantum dots, waveguides, ratchets, etc.
- 81Q40 Bethe-Salpeter and other integral equations
- 81Q50 Quantum chaos [See also 37Dxx]

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81Qxx

81Q60	Supersymmetry and quantum mechanics
81Q65	Alternative quantum mechanics
81Q70	Differential-geometric methods, including holonomy, Berry and
	Hannay phases, etc.
81Q80	Special quantum systems, such as solvable systems
81Q93	Quantum control
81Q99	None of the above, but in this section
81Rxx 81R05	Groups and algebras in quantum theory Finite-dimensional groups and algebras motivated by physics and
011105	their representations [See also 20C35, 22E70]
81R10	Infinite-dimensional groups and algebras motivated by physics,
	including Virasoro, Kac-Moody, W-algebras and other current
	algebras and their representations [See also 17B65, 17B67, 22E65,
	22E67, 22E70]
81R12	Relations with integrable systems [See also 17Bxx, 37J35]
81R15	Operator algebra methods [See also 46Lxx, 81T05]
81R20	Covariant wave equations
81R25 81R30	Spinor and twistor methods [See also 32L25] Coherent states [See also 22E45]; squeezed states [See also 81V80]
81R40	Symmetry breaking
81R50	Quantum groups and related algebraic methods [See also 16T20,
	17B37]
81R60	Noncommutative geometry
81R99	None of the above, but in this section
81Sxx	General quantum mechanics and problems of quantization
81S05	Canonical quantization, commutation relations and statistics
81S10 81S20	Geometry and quantization, symplectic methods [See also 53D50]
$\begin{array}{c} 81S20\\ 81S22 \end{array}$	Stochastic quantization Open systems, reduced dynamics, master equations, decoherence
01022	[See also 82C31]
81S25	Quantum stochastic calculus
81S30	Phase-space methods including Wigner distributions, etc.
81S40	Path integrals [See also 58D30]
81S99	None of the above, but in this section
81Txx	Quantum field theory; related classical field theories [See also 70Sxx]
81T05	Axiomatic quantum field theory; operator algebras
81T08 81T10	Constructive quantum field theory Model quantum field theories
81110 81T13	Yang-Mills and other gauge theories [See also 53C07, 58E15]
81T15	Perturbative methods of renormalization
81T16	Nonperturbative methods of renormalization
81T17	Renormalization group methods
81T18	Feynman diagrams
81T20	Quantum field theory on curved space backgrounds
81T25	Quantum field theory on lattices
81T27	Continuum limits
81T28 81T30	Thermal quantum field theory [See also 82B30] String and superstring theories; other extended objects (e.g., branes)
01100	[See also 83E30]
81T40	Two-dimensional field theories, conformal field theories, etc.
81T45	Topological field theories [See also 57R56, 58Dxx]
81T50	Anomalies
81T55	Casimir effect
81T60	Supersymmetric field theories
81T70 81T75	Quantization in field theory; cohomological methods [See also 58D29]
$81T75 \\ 81T80$	Noncommutative geometry methods [See also 46L85, 46L87, 58B34] Simulation and numerical modeling
81T99	None of the above, but in this section
81Uxx	Scattering theory [See also 34A55, 34L25, 34L40, 35P25, 47A40]
81U05	2-body potential scattering theory [See also 34E20 for WKB
	methods]
81U10	<i>n</i> -body potential scattering theory
81U15	Exactly and quasi-solvable systems
81U20	S-matrix theory, etc.
81U30 81U35	Dispersion theory, dispersion relations Inelastic and multichannel scattering
81U35 81U40	Inverse scattering problems
81U99	None of the above, but in this section
81Vxx	Applications to specific physical systems
81V05	Strong interaction, including quantum chromodynamics
81V10	Electromagnetic interaction; quantum electrodynamics
81V15	Weak interaction
81V17 81V10	Gravitational interaction [See also 83Cxx and 83Exx]
81V19 81V22	Other fundamental interactions Unified theories
81V22 81V25	Unified theories Other elementary particle theory
$81\sqrt{25}$ $81\sqrt{35}$	Nuclear physics
81V45	Atomic physics
81V55	Molecular physics [See also 92E10]

81V55 Molecular physics [See also 92E10] 81V65Quantum dots [See also 82D20]

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82D55

82D60

82D75

82D77

Superconductors

Nuclear reactor theory; neutron transport

Quantum wave guides, quantum wires [See also 78A50]

Polymers

81V70 Many-body theory; quantum Hall effect 81V80 Quantum optics 81V99 None of the above, but in this section STATISTICAL MECHANICS, STRUCTURE OF MATTER 82-XX82 - 00General reference works (handbooks, dictionaries, bibliographies, etc.) 82 - 01Instructional exposition (textbooks, tutorial papers, etc.) 82 - 02Research exposition (monographs, survey articles) 82 - 03Historical (must also be assigned at least one classification number from Section 01) 82 - 04Explicit machine computation and programs (not the theory of computation or programming) 82 - 05Experimental papers 82 - 06Proceedings, conferences, collections, etc. Computational methods 82 - 08Equilibrium statistical mechanics 82Bxx 82B03 Foundations 82B05Classical equilibrium statistical mechanics (general) 82B10 Quantum equilibrium statistical mechanics (general) 82B20 Lattice systems (Ising, dimer, Potts, etc.) and systems on graphs 82B21Continuum models (systems of particles, etc.) 82B23 Exactly solvable models; Bethe ansatz 82B24 Interface problems; diffusion-limited aggregation 82B26Phase transitions (general) 82B27 Critical phenomena 82B28 Renormalization group methods [See also 81T17] 82B30 Statistical thermodynamics [See also 80–XX] 82B31 Stochastic methods 82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20] 82B40 Kinetic theory of gases 82B41 Random walks, random surfaces, lattice animals, etc. [See also 60G50, 82C41] 82B43Percolation [See also 60K35] 82B44Disordered systems (random Ising models, random Schrödinger operators, etc.) 82B80Numerical methods (Monte Carlo, series resummation, etc.) [See also 65–XX, 81T80] 82B99 None of the above, but in this section Time-dependent statistical mechanics (dynamic and nonequilibrium) 82Cxx Foundations 82C0382C05Classical dynamic and nonequilibrium statistical mechanics (general) 82C10Quantum dynamics and nonequilibrium statistical mechanics (general) 82C20Dynamic lattice systems (kinetic Ising, etc.) and systems on graphs 82C21Dynamic continuum models (systems of particles, etc.) 82C22Interacting particle systems [See also 60K35] 82C23Exactly solvable dynamic models [See also 37K60] 82C24Interface problems; diffusion-limited aggregation 82C26Dynamic and nonequilibrium phase transitions (general) 82C27 Dynamic critical phenomena 82C28 Dynamic renormalization group methods [See also 81T17] 82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10] 82C32Neural nets [See also 68T05, 91E40, 92B20] 82C35 Irreversible thermodynamics, including Onsager-Machlup theory 82C40Kinetic theory of gases 82C41Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60G50] 82C43Time-dependent percolation [See also 60K35] Dynamics of disordered systems (random Ising systems, etc.) 82C4482C70Transport processes 82C80Numerical methods (Monte Carlo, series resummation, etc.) 82C99None of the above, but in this section 82Dxx Applications to specific types of physical systems 82D05Gases 82D10 Plasmas 82D15 Liquids 82D20 Solids 82D25Crystals {For crystallographic group theory, see 20H15} 82D30 Random media, disordered materials (including liquid crystals and spin glasses) 82D35 Metals 82D37 Semiconductors 82D40 Magnetic materials 82D45Ferroelectrics 82D50Superfluids

$\begin{array}{c} 82\mathrm{D80}\\ 82\mathrm{D99} \end{array}$	Nanostructures and nanoparticles None of the above, but in this section	$85A40 \\ 85A99$	Co Mi
	RELATIVITY AND GRAVITATIONAL THEORY	86-XX	GE
83–XX 83–00	General reference works (handbooks, dictionaries, bibliographies, etc.)	80-AA 86-00	Ge Ge etc
83-01	Instructional exposition (textbooks, tutorial papers, etc.)	86 - 01	Ins
83-02	Research exposition (monographs, survey articles)	86-02	Re
83-03	Historical (must also be assigned at least one classification number from Section 01)	86-03	His fro
83-04	Explicit machine computation and programs (not the theory of computation or programming)	86-04	Ex cor
83 - 05	Experimental work	86 - 05	Ex
83-06	Proceedings, conferences, collections, etc.	86-06	Pro
83–08	Computational methods	86–08	Co
83Axx 83A05	Special relativity Special relativity	86Axx 86A04	Ge Ge
83A99	None of the above, but in this section	86A05	Hy
83Bxx	Observational and experimental questions		760
83B05	Observational and experimental questions	86A10	Me
83B99	None of the above, but in this section		760
83Cxx	General relativity	86A15	Sei
83C05	Einstein's equations (general structure, canonical formalism, Cauchy problems)	$\begin{array}{c} 86\mathrm{A17} \\ 86\mathrm{A20} \end{array}$	Gle Po
83C10	Equations of motion	86A22	Inv
83C15	Exact solutions	86A25	Ge
83C20	Classes of solutions; algebraically special solutions, metrics with	86A30	Ge
	symmetries	86A32	Ge
83C22	Einstein-Maxwell equations	86A40	Gla
$\begin{array}{c} 83\mathrm{C}25\\ 83\mathrm{C}27\end{array}$	Approximation procedures, weak fields Lattice gravity, Regge calculus and other discrete methods	$\begin{array}{c} 86A60\\ 86A99 \end{array}$	Ge Mi
83C30	Asymptotic procedures (radiation, news functions, <i>H</i> -spaces, etc.)		
83C35	Gravitational waves	90-XX	OP Co
83C40	Gravitational energy and conservation laws; groups of motions	90 - 00	Ge etc
83C45	Quantization of the gravitational field	90 - 01	Ins
83C47	Methods of quantum field theory [See also 81T20]	90 - 02	Re
$\begin{array}{c} 83\mathrm{C50}\\ 83\mathrm{C55} \end{array}$	Electromagnetic fields Macroscopic interaction of the gravitational field with matter	90 - 03	His
00000	(hydrodynamics, etc.)	00 04	fro
83C57	Black holes	90-04	Ex: cor
83C60	Spinor and twistor methods; Newman-Penrose formalism	90-06	Pro
83C65	Methods of noncommutative geometry [See also 58B34]	90-08	Co
83C75	Space-time singularities, cosmic censorship, etc.	90Bxx	Op
83C80 83C99	Analogues in lower dimensions None of the above, but in this section	90B05	Inv
83Dxx	Relativistic gravitational theories other than Einstein's, including	90B06	Tra N
	asymmetric field theories	$\begin{array}{c} 90\mathrm{B}10\\ 90\mathrm{B}15 \end{array}$	Ne Ne
83D05	Relativistic gravitational theories other than Einstein's, including	90B15 90B18	Co
00000	asymmetric field theories	90B20	Tra
83D99 83Exx	None of the above, but in this section Unified, higher-dimensional and super field theories	90B22	Qu
83E05	Geometrodynamics	90B25	Re
83E15	Kaluza-Klein and other higher-dimensional theories	00D20	621 Dm
83E30	String and superstring theories [See also 81T30]	$\begin{array}{c} 90\mathrm{B}30\\ 90\mathrm{B}35 \end{array}$	Pro Sch
83E50	Supergravity	90B36	Sch
83E99	None of the above, but in this section	90B40	Sea
83Fxx 83F05	Cosmology Cosmology	90B50	Ma
83F05 83F99	None of the above, but in this section	000000	[Se
85-XX	ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see	$\begin{array}{c} 90B60\\ 90B70 \end{array}$	Ma Th
0 0- AA	70F15}	90B70 90B80	Dis
85 - 00	General reference works (handbooks, dictionaries, bibliographies,	90B85	Co
	etc.)	90B90	\mathbf{Ca}
85 - 01	Instructional exposition (textbooks, tutorial papers, etc.)	90B99	No
85-02	Research exposition (monographs, survey articles)	90Cxx	Ma
85 - 03	Historical (must also be assigned at least one classification number from Section 01)	$\begin{array}{c} 90\mathrm{C}05\\ 90\mathrm{C}06 \end{array}$	Lir. Laı
85-04	Explicit machine computation and programs (not the theory of computation or programming)	90C08	Spe
85 - 05	Experimental work	90C09	Bo
85 - 06	Proceedings, conferences, collections, etc.	90C10	Int
85-08	Computational methods	90C11	Mi
85Axx	Astronomy and astrophysics {For celestial mechanics, see 70F15}	90C15 00C20	Sto
$\begin{array}{c} 85\mathrm{A04} \\ 85\mathrm{A05} \end{array}$	General Galactic and stellar dynamics	$\begin{array}{c} 90\text{C}20\\ 90\text{C}22 \end{array}$	Qu Ser
85A05 85A15	Galactic and stellar structure	90C22 90C25	Co
85A20	Planetary atmospheres	90C26	No
85A25	Radiative transfer	90C27	Со
85A30	Hydrodynamic and hydromagnetic problems [See also 76Y05]	90C29	Mu
85A35	Statistical astronomy	90C30	No

85A40 85A99	Cosmology {For relativistic cosmology, see 83F05} Miscellaneous topics
vv	-
- XX 86-00	GEOPHYSICS [See also 76U05, 76V05] General reference works (handbooks, dictionaries, bibliographies,
PC 01	etc.)
86-01	Instructional exposition (textbooks, tutorial papers, etc.)
86 - 02	Research exposition (monographs, survey articles)
86-03	Historical (must also be assigned at least one classification number from Section 01)
86-04	Explicit machine computation and programs (not the theory of computation or programming)
86 - 05	Experimental work
86-06	Proceedings, conferences, collections, etc.
86-08	Computational methods
86Axx	Geophysics [See also 76U05, 76V05]
86A04	General
86A05	Hydrology, hydrography, oceanography [See also 76Bxx, 76E20, 76Q05, 76Rxx, 76U05]
86A10	Meteorology and atmospheric physics [See also 76Bxx, 76E20, 76N15, 76Q05, 76Rxx, 76U05]
86A15	Seismology
86A17	Global dynamics, earthquake problems
86A20	Potentials, prospecting
86A22	Inverse problems [See also 35R30]
86A25	Geo-electricity and geomagnetism [See also 76W05, 78A25]
86A30	Geodesy, mapping problems
86A32	Geostatistics
86A40	Glaciology
86A60	Geological problems
86A99	Miscellaneous topics
- XX 90-00	OPERATIONS RESEARCH, MATHEMATICAL PROGRAMMING General reference works (handbooks, dictionaries, bibliographies,
	etc.)
90 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
90 - 02	Research exposition (monographs, survey articles)
90-03	Historical (must also be assigned at least one classification number
	from Section 01)
90-04	Explicit machine computation and programs (not the theory of
00 01	computation or programming)
90-06	Proceedings, conferences, collections, etc.
90–08 D OP	Computational methods
90Bxx	Operations research and management science
90B05	Inventory, storage, reservoirs
90B06	Transportation, logistics
90B10	Network models, deterministic
90B15	Network models, stochastic
90B18	Communication networks [See also 68M10, 94A05]
90B20	Traffic problems
90B22	Queues and service [See also 60K25, 68M20]
90B25	Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
90B30	Production models
90B35	Scheduling theory, deterministic [See also 68M20]
90B36	Scheduling theory, stochastic [See also 68M20]
90B40	Search theory
90B40 90B50	Management decision making, including multiple objectives [See also 90C29, 90C31, 91A35, 91B06]
90B60	Marketing, advertising [See also 91B60]
90B70	Theory of organizations, manpower planning [See also 91D35]
90B80	Discrete location and assignment [See also 90C10]
	Continuous location
90B85	
90B90	Case-oriented studies
90B99	None of the above, but in this section
OCxx	Mathematical programming [See also 49Mxx, 65Kxx]
90C05	Linear programming
90C06	Large-scale problems
90C08	Special problems of linear programming (transportation, multi-index, etc.)
90C09	Boolean programming
90C10	Integer programming
90C11	Mixed integer programming
90C15	Stochastic programming
90C20	Quadratic programming
90C20	Semidefinite programming
	~ ~

- convex programming lonconvex programming, global optimization
 - ombinatorial optimization
 - fulti-objective and goal programming
 - 90C30Nonlinear programming

S	4	4

90C31	Sensitivity, stability, parametric optimization	9
$\begin{array}{c} 90\mathrm{C32} \\ 90\mathrm{C33} \end{array}$	Fractional programming Complementarity and equilibrium problems and variational	9 9
900.55	inequalities (finite dimensions)	9 9
90C34	Semi-infinite programming	9
90C35	Programming involving graphs or networks [See also 90C27]	9
90C39	Dynamic programming [See also 49L20]	9
$\begin{array}{c} 90\mathrm{C40} \\ 90\mathrm{C46} \end{array}$	Markov and semi-Markov decision processes Optimality conditions, duality [See also 49N15]	9 9
90C47	Minimax problems [See also 49K35]	9
90C48	Programming in abstract spaces	9
90C49	Extreme-point and pivoting methods	9
90C51	Interior-point methods Methods of reduced gradient type	9
$\begin{array}{c} 90\mathrm{C52} \\ 90\mathrm{C53} \end{array}$	Methods of reduced gradient type Methods of quasi-Newton type	9 9
90C55	Methods of successive quadratic programming type	9
90C56	Derivative-free methods and methods using generalized derivatives	9
00057	[See also 49J52]	9
90C57 90C59	Polyhedral combinatorics, branch-and-bound, branch-and-cut Approximation methods and heuristics	9 9
90C60	Abstract computational complexity for mathematical programming	9 9
	problems [See also 68Q25]	
90C70	Fuzzy programming	9
90C90 90C99	Applications of mathematical programming None of the above, but in this section	9
		9 9
91–XX	GAME THEORY, ECONOMICS, SOCIAL AND BEHAVIORAL SCIENCES	9
91 - 00	General reference works (handbooks, dictionaries, bibliographies,	91
	etc.)	9
91 - 01	Instructional exposition (textbooks, tutorial papers, etc.)	9 9
$\begin{array}{c}91{-}02\\91{-}03\end{array}$	Research exposition (monographs, survey articles) Historical (must also be assigned at least one classification number	9
91-05	from section 01)	9
91 - 04	Explicit machine computation and programs (not the theory of	91
	computation or programming)	9 9
91-06	Proceedings, conferences, collections, etc.	9
91–08 91Axx	Computational methods Game theory	9
91A05	2-person games	9
91A06	n-person games, $n > 2$	9
91A10	Noncooperative games	9 1 91
91A12	Cooperative games	9
$\begin{array}{c} 91A13 \\ 91A15 \end{array}$	Games with infinitely many players Stochastic games	9
91A18	Games in extensive form	9
91A20	Multistage and repeated games	9
91A22	Evolutionary games	9 9
$\begin{array}{c} 91\mathrm{A23} \\ 91\mathrm{A24} \end{array}$	Differential games [See also 49N70] Positional games (pursuit and evasion, etc.) [See also 49N75]	9
91A24 91A25	Dynamic games	9
91A26	Rationality, learning	91
91A28	Signaling, communication	9 9
91A30	Utility theory for games [See also 91B16]	9 9
$\begin{array}{c} 91\mathrm{A35} \\ 91\mathrm{A40} \end{array}$	Decision theory for games [See also 62Cxx, 91B06, 90B50] Game-theoretic models	9
91A43	Games involving graphs [See also 05C57]	9
91A44	Games involving topology or set theory	9
91A46	Combinatorial games	9 9
91A50 91A55	Discrete-time games Games of timing	0
91A55 91A60	Probabilistic games; gambling [See also 60G40]	9
91A65	Hierarchical games	92 –
91A70	Spaces of games	92
91A80	Applications of game theory	0
$\begin{array}{c} 91A90 \\ 91A99 \end{array}$	Experimental studies None of the above, but in this section	91 91
91Bxx	Mathematical economics {For econometrics, see 62P20}	95
91B02	Fundamental topics (basic mathematics, methodology; applicable to	
04.D.C.	economics in general)	93
91B06 01D08	Decision theory [See also 62Cxx, 90B50, 91A35]	0
$\begin{array}{c} 91B08\\ 91B10 \end{array}$	Individual preferences Group preferences	91 91
91B10 91B12	Voting theory	91 92
91B14	Social choice	9
91B15	Welfare economics	93
91B16 01D19	Utility theory Public goods	92
$\begin{array}{c} 91B18\\ 91B24 \end{array}$	Public goods Price theory and market structure	92
91B24 91B25	Asset pricing models	93
91B26	Market models (auctions, bargaining, bidding, selling, etc.)	93
		10.0

91B30	Risk theory, insurance
91B32	Resource and cost allocation
91B38	Production theory, theory of the firm
$91B40 \\ 91B42$	Labor market, contracts Consumer behavior, demand theory
91B42 91B44	Informational economics
91B50	General equilibrium theory
91B51	Dynamic stochastic general equilibrium theory
91B52	Special types of equilibria
91B54	Special types of economies
91B55	Economic dynamics
91B60 01B62	Trade models Growth models
91B62 91B64	Macro-economic models (monetary models, models of taxation)
91B66	Multisectoral models
91B68	Matching models
91B69	Heterogeneous agent models
91B70	Stochastic models
91B72	Spatial models
91B74	Models of real-world systems
91B76	Environmental economics (natural resource models, harvesting,
91B80	pollution, etc.) Applications of statistical and quantum mechanics to economics
31D00	(econophysics)
91B82	Statistical methods; economic indices and measures
91B84	Economic time series analysis [See also 62M10]
91B99	None of the above, but in this section
91Cxx	Social and behavioral sciences: general topics {For statistics, see 62-
	XX}
91C05	Measurement theory
91C15	One- and multidimensional scaling
91C20 91C00	Clustering [See also 62H30] None of the above, but in this section
91C99 91Dxx	Mathematical sociology (including anthropology)
91D10	Models of societies, social and urban evolution
91D20	Mathematical geography and demography
91D25	Spatial models [See also 91B72]
91D30	Social networks
91D35	Manpower systems [See also 91B40, 90B70]
91D99	None of the above, but in this section
91Exx	Mathematical psychology
91E10 91E30	Cognitive psychology Psychophysics and psychophysiology; perception
91E40	Memory and learning [See also 68T05]
91E45	Measurement and performance
91E99	None of the above, but in this section
91Fxx	Other social and behavioral sciences (mathematical treatment)
91F10	History, political science
91F20	Linguistics [See also 03B65, 68T50]
91F99	None of the above, but in this section
91Gxx 91G10	Mathematical finance Portfolio theory
91G10 91G20	Derivative securities
91G20 91G30	Interest rates (stochastic models)
91G40	Credit risk
91G50	Corporate finance
91G60	Numerical methods (including Monte Carlo methods)
91G70	Statistical methods, econometrics
91G80	Financial applications of other theories (stochastic control, calculus of
01/000	variations, PDE, SPDE, dynamical systems)
91G99	None of the above, but in this section
2-XX	BIOLOGY AND OTHER NATURAL SCIENCES
92 - 00	General reference works (handbooks, dictionaries, bibliographies,
02 01	etc.)
$92-01 \\ 92-02$	Instructional exposition (textbooks, tutorial papers, etc.) Research exposition (monographs, survey articles)
92-02 92-03	Historical (must also be assigned at least one classification number
02 00	from Section 01)
92 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
92-06	Proceedings, conferences, collections, etc.
92–08	Computational methods
92Bxx	Mathematical biology in general
92B05 92B10	General biology and biomathematics
92B10 92B15	Taxonomy, cladistics, statistics General biostatistics [See also 62P10]
92B15 92B20	Neural networks, artificial life and related topics [See also 68T05,
021020	82C32, 94Cxx]
92B25	Biological rhythms and synchronization
92B99	None of the above, but in this section

Control systems

92Cxx	Physiological, cellular and medical topics	93Cxx
92C05	Biophysics	93C05
92C10	Biomechanics [See also 74L15]	93C10
92C15	Developmental biology, pattern formation	93C15
92C17	Cell movement (chemotaxis, etc.)	93C20
$\begin{array}{c} 92\text{C}20\\ 92\text{C}30 \end{array}$	Neural biology Physiology (general)	93C23
92C30 92C35	Physiology (general) Physiological flow [See also 76Z05]	02025
92C33 92C37	Cell biology	$\begin{array}{c} 93\text{C}25\\ 93\text{C}30 \end{array}$
92C40	Biochemistry, molecular biology	95050
92C42	Systems biology, networks	93C35
92C45	Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics,	93C40
	etc.) [See also 80A30]	93C41
92C50	Medical applications (general)	93C42
92C55	Biomedical imaging and signal processing [See also $44A12$, $65R10$,	93C55
	94A08, 94A12]	93C57
92C60	Medical epidemiology	93C62
92C80	Plant biology	93C65
92C99	None of the above, but in this section	93C70
92Dxx 92D10	Genetics and population dynamics Genetics {For genetic algebras, see 17D92}	93C73
92D10 92D15	Problems related to evolution	93C80
92D10 92D20	Protein sequences, DNA sequences	93C83
92D25	Population dynamics (general)	93C85
92D30	Epidemiology	93C95
92D40	Ecology	93C99
92D50	Animal behavior	93Dxx
92D99	None of the above, but in this section	93D05
92Exx	Chemistry {For biochemistry, see 92C40}	02D00
92E10	Molecular structure (graph-theoretic methods, methods of differential	93D09 02D10
	topology, etc.)	$\begin{array}{c} 93\mathrm{D}10\\ 93\mathrm{D}15\end{array}$
92E20	Classical flows, reactions, etc. [See also 80A30, 80A32]	93D15 93D20
92E99	None of the above, but in this section	93D20 93D21
92Fxx	Other natural sciences (should also be assigned at least one other classification number in this section)	93D21 93D25
92F05	Other natural sciences (should also be assigned at least one other	93D30
321 05	classification number in section 92)	93D99
92F99	None of the above, but in this section	93Exx
		93E03
93–XX 93–00	SYSTEMS THEORY; CONTROL { For optimal control, see 49–XX } General reference works (handbooks, dictionaries, bibliographies,	93E10
95-00	etc.)	93E11
93 - 01	Instructional exposition (textbooks, tutorial papers, etc.)	93E12
93-02	Research exposition (monographs, survey articles)	93E14
93 - 03	Historical (must also be assigned at least one classification number	93E15
	from Section 01)	93E20
93 - 04	Explicit machine computation and programs (not the theory of	93E24
	computation or programming)	93E25
93 - 06	Proceedings, conferences, collections, etc.	93E35
93Axx	General	93E99
93A05	Axiomatic system theory	94–XX
93A10 02A12	General systems	94-00
$\begin{array}{c} 93A13\\ 93A14 \end{array}$	Hierarchical systems Decentralized systems	
93A15	Large scale systems	94-01
93A30	Mathematical modeling (models of systems, model-matching, etc.)	94-02
93A99	None of the above, but in this section	94-03
93Bxx	Controllability, observability, and system structure	94-04
93B03	Attainable sets	94-04
93B05	Controllability	94 - 06
93B07	Observability	94Axx
93B10	Canonical structure	94A05
93B11	System structure simplification	94A08
93B12	Variable structure systems	94A11
93B15 02D17	Realizations from input-output data Transformations	94A12
93B17 03B18	Linearizations	94A13
$\begin{array}{c} 93B18\\ 93B20 \end{array}$	Minimal systems representations	94A14
93B20 93B25	Algebraic methods	94A15
93B27	Geometric methods	94A17
93B28	Operator-theoretic methods [See also 47A48, 47A57, 47B35, 47N70]	94A20
93B30	System identification	94A24
93B35	Sensitivity (robustness)	94A29
93B36	H^{∞} -control	94A34
93B40	Computational methods	94A40
93B50	Synthesis problems	94A45
93B51	Design techniques (robust design, computer-aided design, etc.)	94A50 04A55
93B52 02B55	Feedback control	$\begin{array}{c} 94A55\\ 94A60 \end{array}$
$\begin{array}{c} 93B55\\ 93B60 \end{array}$	Pole and zero placement problems Eigenvalue problems	$\begin{array}{c} 94A60\\ 94A62 \end{array}$
93B60 93B99	None of the above, but in this section	$\begin{array}{c} 94A02\\ 94A99\end{array}$
90D99	None of the above, but in this section	

93C05	Linear systems
93C10	Nonlinear systems
93C15	Systems governed by ordinary differential equations [See also 34H05]
93C20	Systems governed by partial differential equations
93C23	Systems governed by functional-differential equations
	[See also 34K35]
93C25	Systems in abstract spaces
93C30	Systems governed by functional relations other than differential
	equations (such as hybrid and switching systems)
93C35	Multivariable systems
93C40	Adaptive control
93C41	Problems with incomplete information
93C42	Fuzzy control systems
93C55	Discrete-time systems
93C57	Sampled-data systems
93C62	Digital systems
93C65	Discrete event systems
93C70	Time-scale analysis and singular perturbations
93C73	Perturbations
93C80	Frequency-response methods
93C83	Control problems involving computers (process control, etc.)
93C85	Automated systems (robots, etc.) [See also 68T40, 70B15, 70Q05]
93C95	Applications
93C99	None of the above, but in this section
93Dxx	Stability
93D05	Lyapunov and other classical stabilities (Lagrange, Poisson, L^p, l^p ,
0000	etc.)
93D09	Robust stability
93D10	Popov-type stability of feedback systems
93D15	Stabilization of systems by feedback
93D20	Asymptotic stability
93D21	Adaptive or robust stabilization
93D25	Input-output approaches
93D30	Scalar and vector Lyapunov functions
93D99	None of the above, but in this section
93Exx	Stochastic systems and control
93E03	Stochastic systems, general
93E10	Estimation and detection [See also 60G35]
93E10 93E11	Filtering [See also 60G35]
93E11 93E12	System identification
93E12 93E14	Data smoothing
93E14 93E15	Stochastic stability
93E15 93E20	Optimal stochastic control
	•
93E24 93E25	Least squares and related methods
	Other computational methods
93E35 02E00	Stochastic learning and adaptive control
93E99	None of the above, but in this section
4-XX	INFORMATION AND COMMUNICATION, CIRCUITS
94 - 00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
94 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
94 - 02	Research exposition (monographs, survey articles)
94 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
94 - 04	Explicit machine computation and programs (not the theory of
	computation or programming)
94 - 06	Proceedings, conferences, collections, etc.
94Axx	Communication, information
94A05	Communication theory [See also 60G35, 90B18]
94A08	Image processing (compression, reconstruction, etc.) [See also 68U10]
94A11	Application of orthogonal and other special functions
94A12	Signal theory (characterization, reconstruction, filtering, etc.)
94A13	Detection theory
94A14	Modulation and demodulation
94A15	Information theory, general [See also 62B10, 81P94]
94A17	Measures of information, entropy
94A20	Sampling theory
94A24	Coding theorems (Shannon theory)
94A29	Source coding [See also 68P30]
94A34	Rate-distortion theory
94A40	Channel models (including quantum)
94A45	Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
94A50	Theory of questionnaires
94A55	Shift register sequences and sequences over finite alphabets

Cryptography [See also 11T71, 14G50, 68P25, 81P94]

Authentication and secret sharing [See also 81P94]

None of the above, but in this section

[Source Date: Monday 12 October 2009 21:56]

94Bxx

97D70

97D80

Learning difficulties and student errors

Teaching units and draft lessons

94Bxx	Theory of error-correcting codes and error-detecting codes
94B05	Linear codes, general
94B10	Convolutional codes
94B12	Combined modulation schemes (including trellis codes)
94B15	Cyclic codes
94B20	Burst-correcting codes
94B25	Combinatorial codes
94B27	Geometric methods (including applications of algebraic geometry)
• •	[See also 11T71, 14G50]
94B30	Majority codes
94B35	Decoding
94B40	Arithmetic codes [See also 11T71, 14G50]
94B50	Synchronization error-correcting codes
94B60	Other types of codes
94B65	Bounds on codes
94B70	Error probability
94B75	Applications of the theory of convex sets and geometry of numbers
	(covering radius, etc.) [See also 11H31, 11H71]
94B99	None of the above, but in this section
94Cxx	Circuits, networks
94C05	Analytic circuit theory
94C10	Switching theory, application of Boolean algebra; Boolean functions
	[See also 06E30]
94C12	Fault detection; testing
94C15	Applications of graph theory [See also 05Cxx, 68R10]
94C30	Applications of design theory [See also 05Bxx]
94C99	None of the above, but in this section
94Dxx	Fuzzy sets and logic (in connection with questions of Section 94)
	[See also 03B52, 03E72, 28E10]
94D05	Fuzzy sets and logic (in connection with questions of Section 94)
	[See also 03B52, 03E72, 28E10]
94D99	None of the above, but in this section
97–XX	MATHEMATICS EDUCATION
97-00	General reference works (handbooks, dictionaries, bibliographies,
	etc.)
97 - 01	Instructional exposition (textbooks, tutorial papers, etc.)
97 - 02	Research exposition (monographs, survey articles)
97 - 03	Historical (must also be assigned at least one classification number
	from Section 01)
97 - 04	from Section 01) Explicit machine computation and programs (not the theory of
97-04	
97-04 97-06	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc.
0. 0-	Explicit machine computation and programs (not the theory of computation or programming)
97–06 97Axx 97A10	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books
97–06 97Axx	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08]
97–06 97Axx 97A10	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX]
97–06 97Axx 97A10 97A20	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society
97–06 97Axx 97A10 97A20 97A30	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00]
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses
97–06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics
97–06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A50 97A70 97A80 97A99 97Bxx	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems
97–06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A70 97A80 97A99 97Bxx 97B10	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A70 97A80 97A99 97Bxx 97B10 97B20 97B30	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vocational education
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A70 97A80 97A99 97B30 97B10 97B20 97B30 97B40	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational research and planning General education Vocational education Higher education
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A70 97A80 97A99 97Bxx 97B10 97B20 97B30 97B40 97B50	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education For research aspects, see 97C70}
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97A80 97A99 97Bxx 97B10 97B20 97B20 97B30 97B40 97B50 97B60	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational research and planning General education Vocational education Higher education For research aspects, see 97C70} Adult and further education
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97B30 97B10 97B20 97B30 97B40 97B50 97B60 97B70	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vocational education Higher education For research aspects, see 97C70} Adult and further education Syllabuses, educational standards
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97B30 97B10 97B20 97B10 97B20 97B30 97B40 97B50 97B60 97B70 97B99	 Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational research and planning General education Vocational education Higher education For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97B30 97B10 97B20 97B30 97B40 97B50 97B60 97B70	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education {For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97B30 97B10 97B20 97B30 97B40 97B30 97B40 97B50 97B60 97B50 97B60 97B70 97B99 97Cxx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education Syllabuses, educational standards None of the above, but in this section Eyychology of mathematics education, research in mathematics education
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B20 97B30 97B40 97B30 97B40 97B50 97B60 97B50 97B60 97B70 97B70 97B99 97Cxx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01-XX] Mathematics and society Bibliographies [See also 01-00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vocational education Higher education Teacher education {For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B20 97B30 97B40 97B50 97B40 97B50 97B60 97B70 97B70 97B70 97B99 97Cxx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vocational education Higher education Teacher education {For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A70 97A80 97B20 97B20 97B20 97B20 97B30 97B40 97B50 97B60 97B50 97B60 97B70 97B70 97B99 97Cxx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vicational education Higher education Syllabuses, educational standards None of the above, but in this section Escher education Syllabuses, educational standards None of the above, but in this section Comprehensive works Affective behavior Cognitive processes, learning theories
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B20 97B30 97B40 97B50 97B40 97B50 97B60 97B60 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C40	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vocational education Higher education For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97B20 97B20 97B20 97B20 97B30 97B40 97B50 97B60 97B60 97B60 97B70 97B99 97B70 97B99 97Cxx 97C10 97C20 97C30 97C40 97C50	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vicational education Higher education For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B30 97B20 97B30 97B40 97B50 97B60 97B50 97B60 97B70 97B99 97Cxx 97C10 97C20 97C30 97C40 97C50 97C60	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning
97-06 97Axx 97A10 97A20 97A30 97A30 97A40 97A50 97A70 97A80 97A99 97B30 97B20 97B30 97B20 97B30 97B40 97B50 97B60 97B50 97B60 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C40 97C50 97C60 97C70	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education {For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B30 97B20 97B30 97B40 97B50 97B60 97B50 97B60 97B70 97B99 97Cxx 97C10 97C20 97C30 97C40 97C50 97C60	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B20 97B30 97B40 97B20 97B30 97B40 97B50 97B60 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C40 97C50 97C60 97C70 97C99 97Dxx	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vocational education Higher education For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B20 97B30 97B40 97B50 97B60 97B60 97B70 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C40 97C50 97C60 97C70 97C99	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Vocational education Higher education Syllabuses, educational standards None of the above, but in this section Especial education General education Higher education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section Education and instruction in mathematics Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section
97-06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B30 97B40 97B50 97B40 97B50 97B60 97B60 97B70 97B99 97Cxx 97C10 97C20 97C30 97C20 97C30 97C40 97C50 97C60 97C70 97C99 97Dxx 97D10 97D20	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section Education and instruction in mathematics Comprehensive works Affective behavior Feaching-learning processes None of the above, but in this section
97–06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B30 97B40 97B50 97B40 97B50 97B60 97B70 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C20 97C30 97C40 97C50 97C60 97C50 97C60 97C70 97C99 97Dxx 97D10 97D20 97D30	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vicational education Higher education Freacher education {For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section Education and instruction in mathematics Philosophical and theoretical contributions (maths didactics) Objectives and goals
97–06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A70 97B20 97B20 97B20 97B30 97B40 97B50 97B40 97B50 97B60 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C20 97C30 97C40 97C50 97C60 97C50 97C60 97C70 97C99 97Dxx 97D10 97D20 97D30 97D40	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section Education and instruction in mathematics Comprehensive works Affective behavior Feaching-learning processes None of the above, but in this section
97–06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A99 97Bxx 97B10 97B20 97B30 97B40 97B50 97B40 97B50 97B60 97B70 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C20 97C30 97C40 97C50 97C60 97C50 97C60 97C70 97C99 97Dxx 97D10 97D20 97D30	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Higher education Higher education Syllabuses, educational standards None of the above, but in this section Escher education {For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section Education and instruction in mathematics Comprehensive works, comparative studies Philosophical and theoretical contributions (maths didactics) Objectives and goals Teaching methods and classroom techniques
97–06 97Axx 97A10 97A20 97A30 97A40 97A50 97A70 97A80 97A70 97B20 97B20 97B20 97B30 97B40 97B50 97B40 97B50 97B60 97B70 97B70 97B99 97Cxx 97C10 97C20 97C30 97C20 97C30 97C40 97C50 97C60 97C50 97C60 97C70 97C99 97Dxx 97D10 97D20 97D30 97D40	Explicit machine computation and programs (not the theory of computation or programming) Proceedings, conferences, collections, etc. General, mathematics and education Comprehensive works, reference books Recreational mathematics, games [See also 00A08] History of mathematics and mathematics education [See also 01–XX] Mathematics and society Bibliographies [See also 01–00] Theses and postdoctoral theses Popularization of mathematics None of the above, but in this section Educational policy and systems Educational research and planning General education Vocational education Higher education Teacher education {For research aspects, see 97C70} Adult and further education Syllabuses, educational standards None of the above, but in this section Psychology of mathematics education, research in mathematics education Comprehensive works Affective behavior Cognitive processes, learning theories Intelligence and aptitudes Language and verbal communities Sociological aspects of learning Teaching-learning processes None of the above, but in this section Education and instruction in mathematics Comprehensive works, comparative studies Philosophical and theoretical contributions (maths didactics) Objectives and goals Teaching methods and classroom techniques Teaching problem solving and heuristic strategies {For research

97D99	None of the above, but in this section
97Exx	Foundations of mathematics
97E10	Comprehensive works
97E20	Philosophy and mathematics
97E30	Logic
97E40	Language of mathematics
97E50	Reasoning and proving in the mathematics classroom
97E60	Sets, relations, set theory
97E99 07E	None of the above, but in this section
97Fxx 97F10	Arithmetic, number theory Comprehensive works
97F10 97F20	Pre-numerical stage, concept of numbers
97F30	Natural numbers
97F40	Integers, rational numbers
97F50	Real numbers, complex numbers
97F60	Number theory
97 F70	Measures and units
97F80	Ratio and proportion, percentages
97F90	Real life mathematics, practical arithmetic
97F99	None of the above, but in this section
97Gxx	Geometry
97G10	Comprehensive works
97G20	Informal geometry
97G30	Areas and volumes
97G40 07G50	Plane and solid geometry
97G50 97G60	Transformation geometry
97G00 97G70	Plane and spherical trigonometry Analytic geometry. Vector algebra
97G80	Descriptive geometry
97G99	None of the above, but in this section
97Hxx	Algebra
97H10	Comprehensive works
97H20	Elementary algebra
97H30	Equations and inequalities
97H40	Groups, rings, fields
97 H 50	Ordered algebraic structures
071100	
97H60	Linear algebra
97H99	None of the above, but in this section
97H99 97Ixx	None of the above, but in this section Analysis
97H99 97Ixx 97I10	None of the above, but in this section Analysis Comprehensive works
97H99 97Ixx 97I10 97I20	None of the above, but in this section Analysis Comprehensive works Mappings and functions
97H99 97Ixx 97I10 97I20 97I30	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series
97H99 97Ixx 97I10 97I20 97I30 97I40	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus
97H99 97Ixx 97I10 97I20 97I30	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus
97H99 97Ixx 97I10 97I20 97I30 97I40 97I40 97I50 97I60	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I70	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I99 97I99	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I99 97Kxx 97K10	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I50 97I60 97I60 97I70 97I80 97I99 97Kxx 97K10 97K10	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I99 97Kxx 97K10 97K20 97K30	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I99 97Kxx 97K10 97K20 97K20 97K30 97K40	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Combinatorics Graph theory Descriptive statistics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I99 97K90 97K20 97K10 97K20 97K30 97K40 97K40	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I99 97K80 97K10 97K20 97K30 97K40 97K50 97K50 97K60	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I80 97K30 97K10 97K20 97K30 97K40 97K50 97K50 97K60 97K60	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I70 97I80 97I99 97K80 97K10 97K20 97K30 97K40 97K50 97K50 97K60	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I80 97I80 97I99 97Kxx 97K10 97K20 97K20 97K30 97K40 97K50 97K60 97K60 97K70 97K80	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I80 97I80 97I99 97K20 97K10 97K20 97K20 97K30 97K40 97K50 97K60 97K60 97K70 97K80 97K80	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I80 97I99 97K20 97K10 97K20 97K20 97K20 97K30 97K40 97K50 97K60 97K60 97K70 97K80 97K80 97K99 97K89	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I70 97I80 97I80 97I99 97Kxx 97K10 97K20 97K20 97K30 97K40 97K50 97K40 97K50 97K60 97K60 97K70 97K80 97K99 97K99	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics Modeling and interdisciplinarity
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I80 97I80 97K10 97K20 97K10 97K20 97K30 97K40 97K50 97K60 97K60 97K60 97K60 97K70 97K80 97K80 97K80 97K80 97K99 97Mxx 97M10 97M20 97M30 97M30	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics Modeling and interdisciplinarity Mathematics in vocational training and career education Financial and insurance mathematics Operations research, economics
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I80 97I80 97K10 97K20 97K20 97K20 97K20 97K30 97K40 97K50 97K60 97K60 97K60 97K70 97K80 97K70 97K80 97K70 97K80 97K70 97K80 97K99 97K80 97K99 97M30 97M10 97M30 97M30 97M40 97M30	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics Modeling and interdisciplinarity Mathematics in vocational training and career education Financial and insurance mathematics Operations research, economics Physics, astronomy, technology, engineering
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I80 97I80 97K20 97K20 97K20 97K20 97K30 97K40 97K50 97K60 97K60 97K60 97K70 97K80 97K70 97K80 97K99 97K80 97K99 97M20 97M30 97M10 97M20 97M30 97M40 97M50 97M60	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics Modeling and interdisciplinarity Mathematics in vocational training and career education Financial and insurance mathematics Operations research, economics Physics, astronomy, technology, engineering Biology, chemistry, medicine
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I70 97I80 97I80 97K30 97K40 97K20 97K30 97K40 97K50 97K40 97K50 97K60 97K60 97K60 97K70 97K80 97K99 97K80 97K99 97M20 97M30 97M40 97M50 97M40 97M50 97M60 97M70	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics Modeling and interdisciplinarity Mathematics in vocational training and career education Financial and insurance mathematics Operations research, economics Physics, astronomy, technology, engineering Biology, chemistry, medicine Behavioral and social sciences
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I70 97I80 97K10 97K20 97K20 97K30 97K40 97K50 97K40 97K50 97K60 97K50 97K60 97K60 97K60 97K70 97K80 97K80 97K99 97K80 97K99 97M20 97M10 97M20 97M30 97M40 97M50 97M60 97M60 97M60 97M70	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics Modeling and interdisciplinarity Mathematics in vocational training and career education Financial and insurance mathematics Operations research, economics Physics, astronomy, technology, engineering Biology, chemistry, medicine Behavioral and social sciences Arts, music, language, architecture
97H99 97Ixx 97I10 97I20 97I30 97I40 97I50 97I60 97I60 97I80 97I80 97K10 97K20 97K30 97K40 97K50 97K40 97K50 97K60 97K60 97K60 97K60 97K70 97K80 97K80 97K99 97M20 97M10 97M20 97M10 97M20 97M30 97M40 97M50 97M60 97M60 97M60 97M60 97M70 97M80 97M80	None of the above, but in this section Analysis Comprehensive works Mappings and functions Sequences and series Differential calculus Integral calculus Functions of several variables Functional equations Complex analysis None of the above, but in this section Combinatorics, graph theory, probability theory, statistics Comprehensive works Combinatorics Graph theory Descriptive statistics Probability theory Distributions and stochastic processes Foundations and methodology of statistics Applied statistics None of the above, but in this section Mathematical modeling, applications of mathematics Modeling and interdisciplinarity Mathematics in vocational training and career education Financial and insurance mathematics Operations research, economics Physics, astronomy, technology, engineering Biology, chemistry, medicine Behavioral and social sciences Arts, music, language, architecture None of the above, but in this section
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- 97N60 Mathematical programming
- 97N70 Discrete mathematics
- 97N80 Mathematical software, computer programs
- 97N99 None of the above, but in this section

[Source Date: Monday 12 October 2009 21:56]

97Pxx	Computer science
97P10	Comprehensive works
97P20	Theory of computer science
97P30	System software
97P40	Programming languages
97P50	Programming techniques
97P60	Hardware
97P70	Computer science and society
97P99	None of the above, but in this section
97Qxx	Computer science education
97Q10	Comprehensive works
97Q20	Affective aspects in teaching computer science
97Q30	Cognitive processes
97Q40	Sociological aspects
97Q50	Objectives
97Q60	Teaching methods and classroom techniques
97Q70	Student assessment
97Q80	Teaching units
97Q99	None of the above, but in this section
97Rxx	Computer science applications
97 R10	Comprehensive works, collections of programs
97R20	Applications in mathematics
97R30	Applications in sciences
97R40	Artificial intelligence
97R50	Data bases, information systems
97R60	Computer graphics
97R70	User programs, administrative applications
97R80	Recreational computing
97R99	None of the above, but in this section
97Uxx	Educational material and media, educational technology
97U10	Comprehensive works
97U20	Textbooks. Textbook research
97U30	Teachers' manuals and planning aids
97U40	Problem books. Competitions. Examinations
97U50	Computer assisted instruction; e-learning
97U60	Manipulative materials
97U70	Technological tools, calculators

- 97U80 Audiovisual media
- 97U99 None of the above, but in this section