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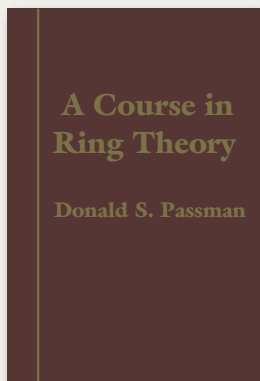
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Algebra & Algebraic Geometry



A COURSE IN RING THEORY

Donald S. Passman, *University of Wisconsin, Madison, WI*

(An) excellently written book ... A book recommendable now as before!

—*Monatshefte für Mathematik*

Originally a Chelsea Publishing imprint, this new AMS edition contains the core material for an undergraduate first course in ring theory. Using the underlying theme of projective and injective modules, the author touches upon various aspects of commutative and noncommutative ring theory. A number of

major results are highlighted and proved. The book contains numerous exercises and a list of suggested additional reading.

Readership: Graduate students and research mathematicians interested in ring theory.

2004; 306 pp.; hardcover; ISBN-10: 0-8218-3680-3; ISBN-13: 978-0-8218-3680-4; List US\$45; All AMS members US\$41; Order code: CHEL/348.H

COLLEGE ALGEBRA

Henry Burchard Fine

Fine's *College Algebra* offers the reader a chance to learn the origins of a variety of topics taught in today's algebra curriculum while also learning about the methods that were emphasized in college algebra courses taught in the early 1900s. The book includes detailed discussions of techniques of solving quadratic and cubic equations, as well as some discussion of fourth-order equations. While it is ostensibly an algebra book, it covers many topics that are found throughout today's curriculum, including calculus and analysis, number theory, and probability. The book will delight modern mathematicians with its inclusion of gems of method that have been overlooked in today's emphasis on abstraction.

Readership: Undergraduates, graduate students, and research mathematicians interested in algebra.

1961; 631 pp.; hardcover; ISBN-10: 0-8218-3863-6; ISBN-13: 978-0-8218-3863-1; List US\$69; All AMS members US\$62; Order code: CHEL/354.H

THE THEORY OF GROUP CHARACTERS AND MATRIX REPRESENTATIONS OF GROUPS

SECOND EDITION

Dudley E. Littlewood

It's a beautifully written book, dated but by no means obsolete.

—*MAA Reviews*

Originally written in 1940, this book remains a classical source on representations and characters of finite and compact groups. The book starts with necessary information about matrices, algebras, and groups. Then the author proceeds to representations of finite groups. Of particular interest in this part of the book are several chapters devoted to representations and characters of symmetric groups and the closely related theory of symmetric polynomials. The concluding chapters present the representation theory of classical compact Lie groups, including a detailed description of representations of the unitary and orthogonal groups. The book, which can be read with minimal prerequisites (an undergraduate algebra course), allows the reader to get a good understanding of beautiful classical results about group representations.

Readership: Graduate students and research mathematicians interested in representation theory.

2006; 310 pp.; hardcover; ISBN-10: 0-8218-4067-3; ISBN-13: 978-0-8218-4067-2; List US\$45; All AMS members US\$41; Order code: CHEL/357.H

REPRESENTATION THEORY OF FINITE GROUPS AND ASSOCIATIVE ALGEBRAS

Charles W. Curtis and Irving Reiner

First published in 1962, this classic book remains a remarkably complete introduction to various aspects of the representation theory of finite groups. One of its main advantages is that the authors went far beyond the standard elementary representation theory, including a masterly treatment of topics such as general noncommutative algebras, Frobenius algebras, representations over nonalgebraically closed fields and fields of nonzero characteristic, and integral representations. These and many other subjects are treated extremely thoroughly, starting with basic definitions and results and proceeding to many important and crucial developments. Numerous examples and exercises help the reader of this unsurpassed book to master this important area of mathematics.

Readership: Graduate students and research mathematicians working in algebra, especially in representation theory.

1962; 689 pp.; hardcover; ISBN-10: 0-8218-4066-5; ISBN-13: 978-0-8218-4066-5; List US\$89; All AMS members US\$80; Order code: CHEL/356.H

Analysis

COMPLEX MANIFOLDS

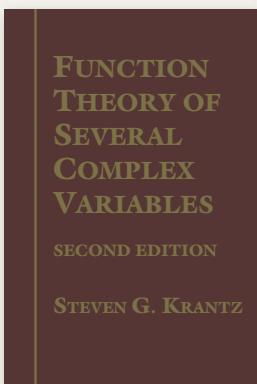


James Morrow, *University of Washington, Seattle, WA*,
and Kunihiko Kodaira

This volume serves as an introduction to the Kodaira-Spencer theory of deformations of complex structures. Based on notes taken by James Morrow from lectures given by Kunihiko Kodaira at Stanford University in 1965–1966, the book gives the original proof of the Kodaira embedding theorem, showing that the restricted class of Kähler manifolds called Hodge manifolds is algebraic. Included are the semicontinuity theorems and the local completeness theorem of Kuranishi.

Readership: Graduate students and research mathematicians interested in abstract complex manifolds.

1971; 194 pp.; hardcover; ISBN-10: 0-8218-4055-X; ISBN-13: 978-0-8218-4055-9; List US\$29; All AMS members US\$26;
Order code: CHEL/355.H



FUNCTION THEORY OF SEVERAL COMPLEX VARIABLES

SECOND EDITION

Steven G. Krantz, *Washington University,
St. Louis, MO*

This work departs from earlier treatments of the subject by emphasizing integral formulas, the geometric theory of pseudoconvexity, estimates, partial differential equations, approximation theory, the boundary behavior of holomorphic functions, inner functions, invariant metrics, and mapping theory. While due homage is paid to the more traditional algebraic theory (sheaves, Cousin problems, etc.), the student with a background in real and complex variable theory, harmonic analysis, and differential equations will be most comfortable with this treatment.

It is currently the only book on the subject with exercises and a large number of examples.

Readership: Graduate students and research mathematicians interested in several complex variables and analytic spaces.

2001; 564 pp.; hardcover; ISBN-10: 0-8218-2724-3; ISBN-13: 978-0-8218-2724-6; List US\$58; All AMS members US\$52;
Order code: CHEL/340.H

Differential Equations

NAVIER-STOKES EQUATIONS

THEORY AND NUMERICAL ANALYSIS

Roger Temam, *Indiana University, Bloomington, IN*

From a review of the first edition:

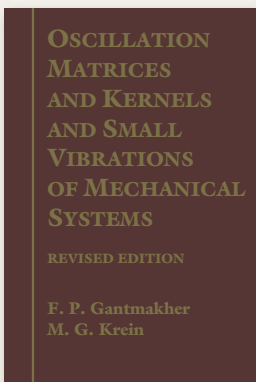
This book, in many ways remarkable, gives a detailed account of a number of results concerned with the theory and numerical analysis of the Navier-Stokes equations of viscous incompressible fluids.

—*Zentralblatt MATH*

This book, originally published in 1977 and reprinted four times since, presents a systematic treatment of results on the theory and numerical analysis of the Navier-Stokes equations for viscous incompressible fluids. The current volume is reprinted and fully retypeset by the AMS, and remains close in content to the 1984 edition. Considered are the linearized stationary case, the nonlinear stationary case, and the full nonlinear time-dependent case. New material is included in Appendix III, containing a short derivation of the Navier-Stokes equations from the basic conservation principles in continuum mechanics, further historical perspectives, and indications of new developments in the area. Readers are advised to peruse the appendix before reading the core of the book, which continues to serve as a comprehensive reference on the theory of Navier-Stokes equations.

Readership: Graduate students and research mathematicians interested in fluid mechanics, linear and nonlinear PDEs, and numerical analysis.

1984; 408 pp.; hardcover; ISBN-10: 0-8218-2737-5; ISBN-13: 978-0-8218-2737-6; List US\$62; All AMS members US\$56; Order code: CHEL/343.H



OSCILLATION MATRICES AND KERNELS AND SMALL VIBRATIONS OF MECHANICAL SYSTEMS

REVISED EDITION

F. R. Gantmacher and M. G. Krein

Fifty years after the original Russian edition, this classic work is now available in English. This book lays the foundation of what later became “Krein’s Theory of String”. The original ideas stemming from mechanical considerations are developed with exceptional clarity. The authors study in depth small oscillations of one-dimensional continua with a finite or infinite

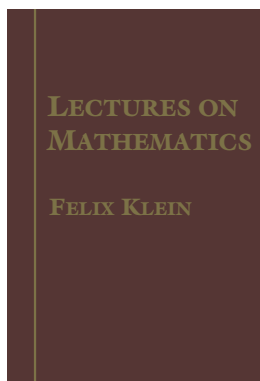
number of degrees of freedom. They single out an algebraic property responsible for the qualitative behavior of eigenvalues and eigenfunctions of one-dimensional continua and

introduce a subclass of totally positive matrices (“oscillatory matrices”), which play an important role in modern mathematics. Text supplements include Krein’s famous paper that laid the groundwork for the broad research area of the inverse spectral problem.

Readership: Graduate students, research mathematicians, and engineers interested in ordinary differential equations, integral equations, and their applications.

2002; 310 pp.; hardcover; ISBN-10: 0-8218-3171-2; ISBN-13: 978-0-8218-3171-7; List US\$57; All AMS members US\$51; Order code: CHEL/345.H

General & Interdisciplinary



LECTURES ON MATHEMATICS

Felix Klein

Following the Congress of Mathematicians in 1893, Felix Klein gave two weeks of lectures on the state of mathematics, a personal view of his era’s most important topics. It is remarkable how most of these topics remain important. Originally published in 1893 and reissued by the AMS in 1911, this new edition offers a fascinating retrospective on a master’s musings. Klein begins by discussing Clebsch’s work on Abelian functions and Lie’s contributions to geometry. Klein’s ability to connect mathematical disciplines clearly comes through in discussions of developments such as the recent progress in non-Euclidean geometry and its connections to projective geometry and the

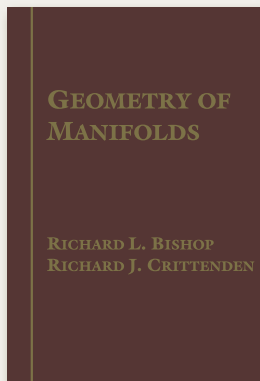
role of transformation groups. His discussion of the mutual influences of physics and mathematics is strikingly similar to today’s discussions of “physical mathematics”.

Readership: Graduate students, research mathematicians, and mathematical historians.

1894; 109 pp.; hardcover; ISBN-10: 0-8218-2733-2; ISBN-13: 978-0-8218-2733-8; List US\$20; All AMS members US\$18; Order code: CHEL/339.H



Geometry & Topology



GEOMETRY OF MANIFOLDS



Richard L. Bishop, *University of Illinois, Urbana, IL*, and Richard J. Crittenden

From a review of the first edition:

This book represents an excellent treatment of a wide section of modern differential geometry.

—*Mathematical Reviews*

This volume is a reprint with few corrections to the original work published in 1964. Starting with the notion of differential manifolds, the first six chapters lay a foundation for the study of Riemannian manifolds through specializing the theory of connections on principle bundles and affine connections. The

geometry of Riemannian manifolds is emphasized, as opposed to global analysis, so that the theorems of Hopf-Rinow and Hadamard-Cartan, and Cartan's local isometry theorem are included, but no elliptic operator theory. Isometric immersions are treated elegantly and from a global viewpoint. In the final chapter are the more complicated estimates on which much of the research in Riemannian geometry is based: the Morse index theorem, Synge's theorems on closed geodesics, Rauch's comparison theorem, and the original proof of the Bishop volume-comparison theorem (with Myers' theorem as a corollary).

Readership: Graduate students and research mathematicians interested in geometry, analysis, topology, algebra, and probability.

1964; 273 pp.; hardcover; ISBN-10: 0-8218-2923-8; ISBN-13: 978-0-8218-2923-3; List US\$41; All AMS members US\$37; Order code: CHEL/344.H

3-MANIFOLDS

John Hempel, *Rice University, Houston, TX*

For many years, John Hempel's book has been a standard text on the topology of 3-manifolds. Even though the field has grown tremendously, the book remains one of the best and most popular introductions to the subject.

The theme of this book is the role of the fundamental group in determining the topology of a given 3-manifold. The essential ideas and techniques are covered in the first part of the book. Many useful and insightful results are proved, usually in full detail. Later chapters address more advanced topics. The book concludes with a list of problems that were unsolved at the time of publication. Hempel's book remains an ideal text to learn about the world of 3-manifolds.

Readership: Graduate students and research mathematicians interested in low-dimensional topology.

2004; 195 pp.; hardcover; ISBN-10: 0-8218-3695-1; ISBN-13: 978-0-8218-3695-8; List US\$29; All AMS members US\$26; Order code: CHEL/349.H

COMPLEX COBORDISM AND STABLE HOMOTOPY GROUPS OF SPHERES

Douglas C. Ravenel, *University of Rochester, NY*

From reviews of the first edition:

The style of writing is very fluent, pleasant to read and typical for the author, as everyone who has read a paper written by him will recognize ... this is a very welcome book.

—*Zentralblatt MATH*

Since the publication of its first edition, this book has served as one of the few available on the classical Adams spectral sequence and is the best account on the Adams-Novikov spectral sequence. This new edition has been updated in many places, especially the final chapter, which has been completely rewritten with an eye toward future research in the field. It remains the definitive reference on the stable homotopy groups of spheres.

Readership: Graduate students and research mathematicians interested in algebraic topology.

2004; 395 pp.; hardcover; ISBN-10: 0-8218-2967-X; ISBN-13: 978-0-8218-2967-7; List US\$59; All AMS members US\$53; Order code: CHEL/347.H

KNOTS AND LINKS



Dale Rolfsen, *University of British Columbia, Vancouver, Canada*

Rolfsen's beautiful book on knots and links can be read by anyone who wants to learn about knot theory. Beginners find an inviting introduction to the elements of topology, emphasizing the tools needed for understanding knots, the fundamental group, and van Kampen's theorem; this knowledge can then be applied to concrete problems, such as computing knot groups. For experts, Rolfsen explains the connections between knot theory and surgery and how they are useful to understanding 3-manifolds. Besides providing a guide to understanding knot theory, the book offers hands-on training allowing readers to compute presentations of knot groups, Alexander polynomials, and other invariants; perform surgery on 3-manifolds; and visualize knots and their complements. Rolfsen strikes a perfect balance between technical detail and informal explanation. The book includes superb illustrations.

Readership: Advanced undergraduates, graduate students, and research mathematicians interested in knot theory and its applications to low-dimensional topology.

2003; 439 pp.; hardcover; ISBN-10: 0-8218-3436-3; ISBN-13: 978-0-8218-3436-7; List US\$55; All AMS members US\$50; Order code: CHEL/346.H

DIFFERENTIAL GEOMETRY AND SYMMETRIC SPACES

Sigurdur Helgason, *Massachusetts Institute of Technology,
Cambridge, MA*

Remarkably well written.

—*Bulletin of the AMS*

For many years, Sigurdur Helgason's classic *Differential Geometry and Symmetric Spaces* was recognized as the standard text for both Riemannian geometry and the analysis and geometry of symmetric spaces. Although much has happened in the field since the publication of this clearly written and detailed book, as demonstrated by Helgason's own three-volume expansion of the original work, this single volume still offers an excellent overview. Chapters on differential geometry and Lie groups continue to be among the best available treatments of the subjects. There is also a well-developed treatment of Cartan's classification and structure theory of symmetric spaces. The last chapter, on functions on symmetric spaces, remains an excellent introduction to the study of spherical functions, the theory of invariant differential operators, and other topics in harmonic analysis.

Readership: Graduate students and research mathematicians interested in topological groups and Lie groups; mathematical physicists.

1962; 487 pp.; hardcover; ISBN-10: 0-8218-2735-9; ISBN-13: 978-0-8218-2735-2; List US\$51; All AMS members US\$46; Order code: CHEL/341.H

Mathematical Physics

SOLVABLE MODELS IN QUANTUM MECHANICS

SECOND EDITION

S. Albeverio
F. Gesztesy
R. Høegh-Krohn
H. Holden

With an Appendix by
Pavel Exner

SOLVABLE MODELS IN QUANTUM MECHANICS SECOND EDITION

S. Albeverio, *University of Bonn, Germany*,
F. Gesztesy, *University of Missouri, Columbia,
MO*, R. Høegh-Krohn, H. Holden, *Norwegian
University of Science & Technology, Trondheim,
Norway*, with an Appendix by P. Exner, *Czech
Academy of Sciences, Prague, Czech Republic*

There is a wealth of very pretty examples of Schrödinger operators here which could be presented ... in an elementary quantum mechanics course.

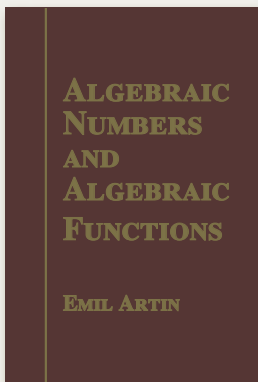
—*MathSciNet*

This monograph presents a detailed study of a class of solvable models in quantum mechanics that describe the motion of a particle in a potential having support at the positions of a discrete (finite or infinite) set of point sources. Both situations—where the strengths of the sources and their locations are precisely known and where they are known only with a given probability distribution—are covered. The authors present a systematic mathematical approach to these models and illustrate its connections with previous heuristic derivations and computations. Results obtained by different methods in disparate contexts are thus unified, and a systematic control over approximations to the models is provided. The book's first edition generated considerable interest for those learning advanced mathematical topics in quantum mechanics. This edition includes a new appendix by Pavel Exner, offering a summary of progress made in the field since 1988.

Readership: Graduate students and research mathematicians interested in quantum mechanics and Schrödinger operators.

2005; 488 pp.; hardcover; ISBN-10: 0-8218-3624-2; ISBN-13: 978-0-8218-3624-8; List US\$69; All AMS members US\$62; Order code: CHEL/350.H

Number Theory



ALGEBRAIC NUMBERS AND ALGEBRAIC FUNCTIONS

Emil Artin

The exposition is (as usual with Artin) quite elegant, and the parallel treatment of number fields and function can be illuminating as well as efficient ... a master of the subject ... It is a true classic in the field.

—*MAA Reviews*

This classic text offers insights from the greatest authority on algebraic numbers and algebraic functions. Based on the course lectures of Emil Artin at Princeton University in 1950–1951, the notes cover general valuation theory, local class field theory, and the theory of algebraic function fields of one variable. The Riemann-Roch theorem and its applications are discussed, and the book includes proofs of the theorems on Sylow groups.

Readership: Graduate students and research mathematicians interested in number theory and algebraic geometry.

2006; 349 pp.; hardcover; ISBN-10: 0-8218-4075-4; ISBN-13: 978-0-8218-4075-7; List US\$49; All AMS members US\$44; Order code: CHEL/358.H

Probability

LARGE DEVIATIONS

Jean-Dominique Deuschel, *Technical University of Berlin, Germany*, and
Daniel W. Stroock, *Massachusetts Institute of Technology, Cambridge, MA*

This is the second printing of the book first published in 1988. The first four chapters of the volume are based on lectures given by Stroock at MIT in 1987. A large selection of exercises presents important material and many applications. The last two chapters present various nonuniform results (Chapter 5) and outline the analytic approach that allows one to test and compare techniques used in previous chapters (Chapter 6).

Readership: Graduate students and research mathematicians interested in large deviations.

1989; 283 pp.; hardcover; ISBN-10: 0-8218-2757-X; ISBN-13: 978-0-8218-2757-4; List US\$41; All AMS members US\$37;
Order code: CHEL/342.H

FUNCTIONAL INTEGRATION AND QUANTUM PHYSICS

SECOND EDITION

Barry Simon, *California Institute of Technology, Pasadena, CA*

The main theme of this book, the “path integral technique” and its applications to constructive methods of quantum physics, focuses on probabilistic foundations of the Feynman-Kac formula. Starting with main examples of Gaussian processes (the Brownian motion, the oscillatory process, and the Brownian bridge), the author presents four different proofs of the Feynman-Kac formula. Also included is a simple exposition of stochastic Itô calculus and its applications, in particular to the Hamiltonian of a particle in a magnetic field (the Feynman-Kac-Itô formula).

Readership: Graduate students and research mathematicians interested in probability and applications of functional integration to quantum physics.

2005; 306 pp.; hardcover; ISBN-10: 0-8218-3582-3; ISBN-13: 978-0-8218-3582-1; List US\$39; All AMS members US\$35;
Order code: CHEL/351.H



STOCHASTIC INTEGRALS

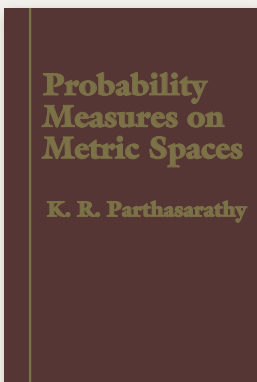
Henry P. McKean

The AMS is excited to bring this volume, originally published in 1969, back into print. This well-written book has been used for many years to learn about stochastic integrals.

The author starts with the presentation of Brownian motion, then deals with stochastic integrals and differentials, including the famous Itô lemma. The rest of the book is devoted to various topics of stochastic integral equations and stochastic integral equations on smooth manifolds.

Readership: Graduate students and research mathematicians interested in probability, stochastic processes, and their applications.

1969; 141 pp.; hardcover; ISBN-10: 0-8218-3887-3; ISBN-13: 978-0-8218-3887-7; List US\$25; All AMS members US\$23; Order code: CHEL/353.H



PROBABILITY MEASURES ON METRIC SPACES

K. R. Parthasarathy

From a review of the first edition:

A very readable book which should serve as an excellent source from which a student could learn the subject ... a convenient reference for the specialist for theorems which must by now be regarded as basic to the subject.

—*Mathematical Reviews*

With this fine exposition, the author gives a cohesive account of the theory of probability measures on complete metric spaces (which he views as an alternative approach to the general theory of stochastic processes). After a general description of the basics of topology on the set of measures, he discusses regularity, tightness, and perfectness of measures; properties of sampling distributions; and metrizable and compactness theorems. Next, he describes arithmetic properties of probability measures on metric groups and locally compact abelian groups. Covered in detail are notions such as decomposability, infinite divisibility, idempotence, and their relevance to limit theorems for “sums” of infinitesimal random variables. The book concludes with numerous results related to limit theorems for probability measures on Hilbert space and on the spaces $C[0,1]$ and $D[0,1]$.

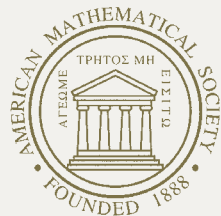
Readership: Graduate students and research mathematicians interested in probability and stochastic processes.

1967; 276 pp.; hardcover; ISBN-10: 0-8218-3889-X; ISBN-13: 978-0-8218-3889-1; List US\$39; All AMS members US\$35; Order code: CHEL/352.H

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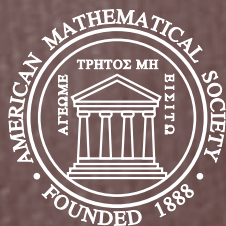
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