

Graduate Texts in Mathematics

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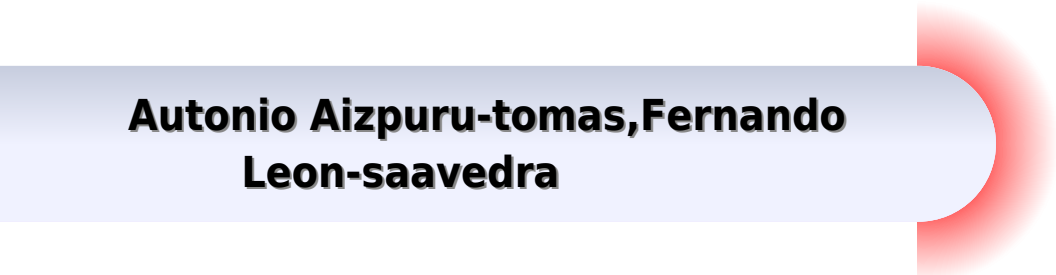
Numbers



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The Book of Numbers John H. Conway, Richard Guy, 2012-12-06 Journey through the world of numbers with the foremost authorities and writers in the field John Horton Conway and Richard K Guy are two of the most accomplished creative and engaging number theorists any mathematically minded reader could hope to encounter In this book Conway and Guy lead the reader on an imaginative often astonishing tour of the landscape of numbers The Book of Numbers is just that an engagingly written heavily illustrated introduction to the fascinating sometimes surprising properties of numbers and number patterns The book opens up a world of topics theories and applications exploring intriguing aspects of real numbers systems arrays and sequences and much more Readers will be able to use figures to figure out figures rub elbows with famous families of numbers prove the primacy of primes fathom the fruitfulness of fractions imagine imaginary numbers investigate the infinite and infinitesimal and more

A Pythagorean Introduction to Number Theory Ramin Takloo-Bighash, 2018-11-26 Right triangles are at the heart of this textbook's vibrant new approach to elementary number theory Inspired by the familiar Pythagorean theorem the author invites the reader to ask natural arithmetic questions about right triangles then proceeds to develop the theory needed to respond Throughout students are encouraged to engage with the material by posing questions working through exercises using technology and learning about the broader context in which ideas developed Progressing from the fundamentals of number theory through to Gauss sums and quadratic reciprocity the first part of this text presents an innovative first course in elementary number theory The advanced topics that follow such as counting lattice points and the four squares theorem offer a variety of options for extension or a higher level course the breadth and modularity of the later material is ideal for creating a senior capstone course Numerous exercises are included throughout many of which are designed for SageMath By involving students in the active process of inquiry and investigation this textbook imbues the foundations of number theory with insights into the lively mathematical process that continues to advance the field today Experience writing proofs is the only formal prerequisite for the book while a background in basic real analysis will enrich the reader's appreciation of the final chapters

Advanced Courses Of Mathematical Analysis I - Proceedings Of The First International School Antonio Aizpuru-tomas, Fernando Leon-saavedra, 2004-10-19 This volume consists of a collection of articles from experts with a rich research and educational experience The contributors of this volume are Y Benyamini M Gonz lez V M ller S Reich E Matouskova A J Zaslavski and A R Palacios Each of their work is invaluable For example Benyamini's is the only updated survey of the exciting and active area of the classification of Banach spaces under uniformly continuous maps while Gonz lez's article is a pioneer introduction to the theory of local duality for Banach spaces

The Logic of Infinity Barnaby Sheppard, 2014-07-24 This book conveys to the novice the big ideas in the rigorous mathematical theory of infinite sets

(Mostly) Commutative Algebra Antoine Chambert-Loir, 2021-04-08 This book stems from lectures on commutative algebra for 4th year university students at two French universities Paris and Rennes At that level students

have already followed a basic course in linear algebra and are essentially fluent with the language of vector spaces over fields. The topics introduced include arithmetic of rings, modules, especially principal ideal rings, and the classification of modules over such rings. Galois theory as well as an introduction to more advanced topics such as homological algebra, tensor products, and algebraic concepts involved in algebraic geometry. More than 300 exercises will allow the reader to deepen his understanding of the subject. The book also includes 11 historical vignettes about mathematicians who contributed to commutative algebra.

Mathematical Physics: Classical Mechanics Andreas Knauf, 2018-02-24 As a limit theory of quantum mechanics, classical dynamics comprises a large variety of phenomena from computable, integrable to chaotic mixing behavior. This book presents the KAM, Kolmogorov, Arnold, Moser theory and asymptotic completeness in classical scattering. Including a wealth of fascinating examples in physics, it offers not only an excellent selection of basic topics but also an introduction to a number of current areas of research in the field of classical mechanics. Thanks to the didactic structure and concise appendices, the presentation is self-contained and requires only knowledge of the basic courses in mathematics. The book addresses the needs of graduate and senior undergraduate students in mathematics and physics and of researchers interested in approaching classical mechanics from a modern point of view.

Introduction to Model Theory Philipp Rothmaler, 2018-12-07 Model theory investigates mathematical structures by means of formal languages. So-called first-order languages have proved particularly useful in this respect. This text introduces the model theory of first-order logic, avoiding syntactical issues not too relevant to model theory. In this spirit, the compactness theorem is proved via the algebraically useful ultraproduct technique rather than via the completeness theorem of first-order logic. This leads fairly quickly to algebraic applications like Malcev's local theorems of group theory and, after a little more preparation, to Hilbert's Nullstellensatz of field theory. Steinitz dimension theory for field extensions is obtained as a special case of a much more general model-theoretic treatment of strongly minimal theories. There is a final chapter on the models of the first-order theory of the integers as an abelian group. Both these topics appear here for the first time in a textbook at the introductory level and are used to give hints to further reading and to recent developments in the field, such as stability or classification theory.

Primality Testing and Integer Factorization in Public-Key Cryptography Song Y. Yan, 2009-04-03 Intended for advanced level students in computer science and mathematics, this key text, now in a brand new edition, provides a survey of recent progress in primality testing and integer factorization with implications for factoring-based public key cryptography. For this updated and revised edition, notable new features include a comparison of the Rabin-Miller probabilistic test in RP, the Atkin-Morain elliptic curve test in ZPP, and the AKS deterministic test.

Krylov Subspace Methods Jörg Liesen, Zdeněk Strakoš, 2013 Describes the principles and history behind the use of Krylov subspace methods in science and engineering. The outcome of the analysis is very practical and indicates what can and cannot be expected from the use of Krylov subspace methods, challenging some common assumptions and justifications of standard approaches.

From Holomorphic Functions

to Complex Manifolds Klaus Fritzsche, Hans Grauert, 2012-12-06 The aim of this book is to give an understandable introduction to the theory of complex manifolds. With very few exceptions we give complete proofs. Many examples and figures along with quite a few exercises are included. Our intent is to familiarize the reader with the most important branches and methods in complex analysis of several variables and to do this as simply as possible. Therefore the abstract concepts involved with sheaves, coherence and higher dimensional cohomology are avoided. Only elementary methods such as power series, holomorphic vector bundles and one dimensional co-cycles are used. Nevertheless deep results can be proved, for example the Remmert-Stein theorem for analytic sets, finiteness theorems for spaces of cross sections in holomorphic vector bundles and the solution of the Levi problem. The first chapter deals with holomorphic functions defined in open sub sets of the space $\mathbb{C}^n$. Many of the well known properties of holomorphic functions of one variable such as the Cauchy integral formula or the maximum principle can be applied directly to obtain corresponding properties of holomorphic functions of several variables. Furthermore certain properties of differentiable functions of several variables such as the implicit and inverse function theorems extend easily to holomorphic functions.

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