Graduate Texts in Mathematics

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John H. Conway,Richard Guy

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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   **(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   **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 ultrsproduct 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 **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 Advanced Courses Of Mathematical Analysis I - Proceedings Of The First International School Autonio 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 **Complex Analysis** Eberhard Freitag,Rolf Busam,2006-01-17 All needed notions are developed within the book with the exception of fundamentals which are presented in introductory lectures no other knowledge is assumed Provides a more in depth introduction to the subject than other existing books in this area Over 400 exercises including hints for solutions are included **The Geometry of Celestial Mechanics** Hansjörg Geiges,2016-03-24 Celestial mechanics is the branch of mathematical astronomy devoted to studying the motions of celestial bodies subject to the Newtonian law of gravitation This mathematical introductory textbook reveals that even the most basic question in celestial mechanics the Kepler problem leads to a cornucopia of geometric concepts conformal and projective transformations spherical and hyperbolic geometry notions of curvature and the topology of geodesic flows For advanced undergraduate and beginning graduate students this book explores the geometric concepts underlying celestial mechanics and is an ideal companion for

introductory courses The focus on the history of geometric ideas makes it perfect supplementary reading for students in elementary geometry and topology Numerous exercises historical notes and an extensive bibliography provide all the contextual information required to gain a solid grounding in celestial mechanics **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

Algebra Serge Lang,2012-12-06 From April 1999 Notices of the AMS announcing that the author was awarded the Leroy P Steele Prize for Mathematical Exposition for his many mathematics books Lang s Algebra changed the way graduate algebra is taught retaining classical topics but introducing language and ways of thinking from category theory and homological algebra It has affected all subsequent graduate level algebra books From MathSciNet s review of the first edition The author has an impressive knack for presenting the important and interesting ideas of algebra in just the right way and he never gets bogged down in the dry formalism which pervades some parts of algebra This book is intended as a basic text for a one year course in Algebra at the graduate level or as a useful reference for mathematicians and professionals who use higher level algebra This book successfully addresses all of the basic concepts of algebra For the new edition the author has added exercises and made numerous corrections to the text **Lectures on Discrete Geometry** Jiri Matousek,2013-12-01 Discrete geometry investigates combinatorial properties of configurations of geometric objects To a working mathematician or computer scientist it offers sophisticated results and techniques of great diversity and it is a foundation for fields such as computational geometry or combinatorial optimization This book is primarily a textbook introduction to various areas of discrete geometry In each area it explains several key results and methods in an accessible and concrete manner It also contains more advanced material in separate sections and thus it can serve as a collection of surveys in several narrower subfields The main topics include basics on convex sets convex polytopes and hyperplane arrangements combinatorial complexity of geometric configurations intersection patterns and transversals of convex sets geometric Ramsey type results polyhedral combinatorics and high dimensional convexity and lastly embeddings of finite metric spaces into normed spaces Jiri Matousek is Professor of Computer Science at Charles University in Prague His research has contributed to several of the considered areas and to their algorithmic applications This is his third book

Fourier Analysis and Its Applications Anders Vretblad,2006-04-18 TheclassicaltheoryofFourierseriesandintegrals aswellasLaplacetra forms is of great importance for physical and technical applications and its mathematical beauty makes it an interesting study for pure mathema cians as well I have taught courses on these subjects for decades to civil engineeringstudents andalsomathematicsmajors andthepresentvolume can be regarded as my collected experiences from this work There is of course an unsurpassable book on Fourier analysis the tr tise by Katznelson from 1970 That book is however aimed at mathem ically very mature students and can hardly be used in engineering courses Ontheotherendofthescale thereareanumberofmore or lesscookbo styled books where the emphasis is almost entirely on applications I have felt the

need for an alternative in between these extremes a text for the ambitious and interested student who on the other hand does not aspire to become an expert in the eld There do exist a few texts that ful ll these requirements see the literature list at the end of the book but they do not include all the topics I like to cover in my courses such as Laplace transforms and the simplest facts about distributions **Algebraic Functions and Projective Curves** David Goldschmidt,2006-04-06 This book grew out of a set of notes for a series of lectures I orginally gave at the Center for Communications Research and then at Princeton University The motivation was to try to understand the basic facts about algebraic curves without the modern prerequisite machinery of algebraic geometry Of course one might well ask if this is a good thing to do There is no clear answer to this question In short we are trading off easier access to the facts against a loss of generality and an impaired understanding of some fundamental ideas Whether or not this is a useful tradeoff is something you will have to decide for yourself One of my objectives was to make the exposition as self contained as possible Given the choice between a reference and a proof I usually chose the latter though I worked out many of these arguments myself I think I can con dently predict that few if any of them are novel I also made an effort to cover some topics that seem to have been somewhat neglected in the expository literature **Foundations of Hyperbolic Manifolds** John Ratcliffe,2006-11-25 This heavily class tested book is an exposition of the theoretical foundations of hyperbolic manifolds It is a both a textbook and a reference A basic knowledge of algebra and topology at the first year graduate level of an American university is assumed The first part is concerned with hyperbolic geometry and discrete groups The second part is devoted to the theory of hyperbolic manifolds The third part integrates the first two parts in a development of the theory of hyperbolic orbifolds Each chapter contains exercises and a section of historical remarks A solutions manual is available separately **The Arithmetic of Dynamical Systems** J.H. Silverman,2010-05-05 This book is designed to provide a path for the reader into an amalgamation oftwo venerable areas ofmathematics Dynamical Systems and Number Theory Many of the motivating theorems and conjectures in the new subject of Arithmetic Dynamics may be viewed as the transposition ofclassical results in the theory ofDiophantine equations to the setting of discrete dynamical systems especially to the iteration theory ofmaps on the projective line and other algebraic varieties Although there is no precise dictionary connecting the two areas the reader will gain a flavor of the correspondence from the following associations Diophantine Equations Dynamical Systems rational and integral rational and integral points on varieties points in orbits torsion points on periodic and preperiodic abelian varieties points ofrational maps There are a variety of topics covered in this volume but inevitably the choice reflects the author s tastes and interests Many related areas that also fall under the heading ofarithmetic or algebraic dynamics have been omitted in order to keep the book to a manageable length A brief list of some of these omitted topics may be found in the introduction Online Resources The reader will find additonal material references and errata at http www math brown ectu jhs ADSHome html Acknowledgments The author has consulted a great many sources in writing this book Every attempt has been made to give proper attribution

for all but the most standard results   The Arithmetic of Hyperbolic 3-Manifolds Colin Maclachlan,Alan W. Reid,2013-04-17 For the past 25 years the Geometrization Program of Thurston has been a driving force for research in 3 manifold topology This has inspired a surge of activity investigating hyperbolic 3 manifolds and Kleinian groups as these manifolds form the largest and least well understood class of compact 3 manifolds Familiar and new tools from diverse areas of mathematics have been utilized in these investigations from topology geometry analysis group theory and from the point of view of this book algebra and number theory This book is aimed at readers already familiar with the basics of hyperbolic 3 manifolds or Kleinian groups and it is intended to introduce them to the interesting connections with number theory and the tools that will be required to pursue them While there are a number of texts which cover the topological geometric and analytical aspects of hyperbolic 3 manifolds this book is unique in that it deals exclusively with the arithmetic aspects which are not covered in other texts Colin Maclachlan is a Reader in the Department of Mathematical Sciences at the University of Aberdeen in Scotland where he has served since 1968 He is a former President of the Edinburgh Mathematical Society Alan Reid is a Professor in the Department of Mathematics at The University of Texas at Austin He is a former Royal Society University Research Fellow Alfred P Sloan Fellow and winner of the Sir Edmund Whittaker Prize from The Edinburgh Mathematical Society Both authors have published extensively in the general area of discrete groups hyperbolic manifolds and low dimensional topology   **Rational Homotopy Theory** Yves Felix,Stephen Halperin,J.-C. Thomas,2012-12-06 as well as by the list of open problems in the final section of this monograph The computational power of rational homotopy theory is due to the discovery by Quillen 135 and by Sullivan 144 of an explicit algebraic formulation In each case the rational homotopy type of a topological space is the same as the isomorphism class of its algebraic model and the rational homotopy type of a continuous map is the same as the algebraic homotopy class of the correspond ing morphism between models These models make the rational homology and homotopy of a space transparent They also in principle always and in prac tice sometimes enable the calculation of other homotopy invariants such as the cup product in cohomology the Whitehead product in homotopy and rational Lusternik Schnirelmann category In its initial phase research in rational homotopy theory focused on the identi of these models These included fication of rational homotopy invariants in terms the homotopy Lie algebra the translation of the Whitehead product to the homo topy groups of the loop space OX under the isomorphism 11 1 X 1I OX LS category and cone length Since then however work has concentrated on the properties of these in variants and has uncovered some truly remarkable and previously unsuspected phenomena For example If X is an n dimensional simply connected finite CW complex then either its rational homotopy groups vanish in degrees 2 2n or else they grow exponentially   Introduction to Lie Algebras and Representation Theory J.E. Humphreys,2012-12-06 This book is designed to introduce the reader to the theory of semisimple Lie algebras over an algebraically closed field of characteristic 0 with emphasis on representations A good knowledge of linear algebra including eigenvalues bilinear forms euclidean spaces and tensor

products of vector spaces is presupposed as well as some acquaintance with the methods of abstract algebra The first four chapters might well be read by a bright undergraduate however the remaining three chapters are admittedly a little more demanding Besides being useful in many parts of mathematics and physics the theory of semisimple Lie algebras is inherently attractive combining as it does a certain amount of depth and a satisfying degree of completeness in its basic results Since Jacobson s book appeared a decade ago improvements have been made even in the classical parts of the theory I have tried to incor porate some of them here and to provide easier access to the subject for non specialists For the specialist the following features should be noted I The Jordan Chevalley decomposition of linear transformations is emphasized with toral subalgebras replacing the more traditional Cartan subalgebras in the semisimple case 2 The conjugacy theorem for Cartan subalgebras is proved following D J Winter and G D Mostow by elementary Lie algebra methods avoiding the use of algebraic geometry **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 the ory 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 en Many of the well known properties of holomorphic functions of one variable such as the Cauchy integral formula or the maxi mum 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

Algebra Thomas W. Hungerford,2003-02-14 Finally a self contained one volume graduate level algebra text that is readable by the average graduate student and flexible enough to accommodate a wide variety of instructors and course contents The guiding principle throughout is that the material should be presented as general as possible consistent with good pedagogy Therefore it stresses clarity rather than brevity and contains an extraordinarily large number of illustrative exercises

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