Number Theory And Discrete Mathematics

Michel Waldschmidt

Number Theory And Discrete Mathematics:

Introduction to Number Theory Anthony Vazzana,Martin Erickson,David Garth,2007-10-30 One of the oldest branches of mathematics number theory is a vast field devoted to studying the properties of whole numbers Offering a flexible format for a one or two semester course Introduction to Number Theory uses worked examples numerous exercises and two popular software packages to describe a diverse array of number theory topi   Fundamental Number Theory with Applications Richard A. Mollin,2008-02-21 An update of the most accessible introductory number theory text available Fundamental Number Theory with Applications Second Edition presents a mathematically rigorous yet easy to follow treatment of the fundamentals and applications of the subject The substantial amount of reorganizing makes this edition clearer and more elementary in i   **Number Theory and Discrete Mathematics** Mattias Raskob,2017-10 Number Theory is one of the oldest and richest branches of mathematics Number theory is concerned with the properties of numbers in general particularly integers It has applications to cryptography cryptanalysis and cryptology particularly with regard to modular arithmetic Diophantine equations linear and quadratic congruences prime numbers and primarily testing Other discrete aspects of number theory include geometry of numbers In analytic number theory techniques from continuous mathematics are also used Ideas from combinatorics algebra and complex analysis all find their way and eventually become essential for understanding parts of number theory Research in discrete mathematics increased in the latter half of the twentieth century partly due to the development of digital computers which operate in discrete steps and store data in discrete bits Concepts and notations from discrete mathematics are useful in studying and describing objects and problems in branches of computer science such as computer algorithms programming languages cryptography automated theorem proving and software development Conversely computer implementations are significant in applying ideas from discrete mathematics to real world problems such as in operations research This book Number Theory Discrete Mathematics is designed explicitly for mathematicians and computer scientists seeking a first approach to this important topic It offers more comprehensive coverage of the fundamental theory techniques and applications of number theory This approachable text studies discrete objects and the relationships that bind them   *Algebraic Number Theory* Richard A. Mollin,2011-01-05 Bringing the material up to date to reflect modern applications this second edition has been completely rewritten and reorganized to incorporate a new style methodology and presentation It offers a more complete and involved treatment of Galois theory a more comprehensive section on Pollard s cubic factoring algorithm and more detailed explanations of proofs to provide a sound understanding of challenging material This edition also studies binary quadratic forms and compares the ideal and form class groups The text includes convenient cross referencing a comprehensive index and numerous exercises and applications   *Number Theory* Michel Waldschmidt,1998 To observe the tenth anniversary of the founding of the Ramanujan Mathematical Society an international conference on Discrete Mathematics and Number Theory was held in

January 1996 in Tiruchirapalli India This volume contains proceedings from the number theory component of that conference Papers are divided into four groups arithmetic algebraic geometry automorphic forms elementary and analytic number theory and transcendental number theory This work deals with recent progress in current aspects of number theory and covers a wide variety of topics **Journey into Discrete Mathematics** Owen D. Byer,Deirdre L. Smeltzer,Kenneth L. Wantz,2018-11-13 Journey into Discrete Mathematics is designed for use in a first course in mathematical abstraction for early career undergraduate mathematics majors The important ideas of discrete mathematics are included logic sets proof writing relations counting number theory and graph theory in a manner that promotes development of a mathematical mindset and prepares students for further study While the treatment is designed to prepare the student reader for the mathematics major the book remains attractive and appealing to students of computer science and other problem solving disciplines The exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics The problems are appealing and vary widely in depth and difficulty Careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided Several of the core topics including counting number theory and graph theory are visited twice once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper perspective Owen D Byer and Deirdre L Smeltzer are both Professors of Mathematics at Eastern Mennonite University Kenneth L Wantz is Professor of Mathematics at Regent University Collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject **Number Theory and Discrete Mathematics** Ashok K. Agarwal,2002 This volume contains the proceedings of this conference and collects 29 articles written by some of the leading specialists worldwide Most of the papers describe recent trends and problems their current status as well as historical backgrounds Midwest Number Theory and Discrete Mathematics Ashok K. Agarwal,2002-01-01 Irrationality and Transcendence in Number Theory David Angell,2021-12-30 Irrationality and Transcendence in Number Theory tells the story of irrational numbers from their discovery in the days of Pythagoras to the ideas behind the work of Baker and Mahler on transcendence in the 20th century It focuses on themes of irrationality algebraic and transcendental numbers continued fractions approximation of real numbers by rationals and relations between automata and transcendence This book serves as a guide and introduction to number theory for advanced undergraduates and early postgraduates Readers are led through the developments in number theory from ancient to modern times The book includes a wide range of exercises from routine problems to surprising and thought provoking extension material Features Uses techniques from widely diverse areas of mathematics including number theory calculus set theory complex analysis linear algebra and the theory of computation Suitable as a primary textbook for advanced undergraduate courses in number theory or as supplementary reading for interested postgraduates Each chapter concludes

with an appendix setting out the basic facts needed from each topic so that the book is accessible to readers without any specific specialist background   Number Theory and Its Applications Cheon Seoung Ryoo,2020-11-04 Number theory and its applications are well known for their proven properties and excellent applicability in interdisciplinary fields of science Until now research on number theory and its applications has been done in mathematics applied mathematics and the sciences In particular number theory plays a fundamental and important role in mathematics and applied mathematics This book is based on recent results in all areas related to number theory and its applications   *Handbook of Number Theory II* J. Sándor,B. Crstici,2004 This handbook focuses on some important topics from Number Theory and Discrete Mathematics These include the sum of divisors function with the many old and new issues on Perfect numbers Euler s totient and its many facets the M bius function along with its generalizations extensions and applications the arithmetic functions related to the divisors or the digits of a number the Stirling Bell Bernoulli Euler and Eulerian numbers with connections to various fields of pure or applied mathematics Each chapter is a survey and can be viewed as an encyclopedia of the considered field underlining the interconnections of Number Theory with Combinatorics Numerical mathematics Algebra or Probability Theory This reference work will be useful to specialists in number theory and discrete mathematics as well as mathematicians or scientists who need access to some of these results in other fields of research   *Unusual Applications of Number Theory* Melvyn Bernard Nathanson,2004 This volume contains the proceedings of the workshop held at the DIMACS Center of Rutgers University Piscataway NJ on Unusual Applications of Number Theory Standard applications of number theory are to computer science and cryptology In this volume well known number theorist Melvyn B Nathanson gathers articles from the workshop on other less standard applications in number theory as well as topics in number theory with potential applications in science and engineering The material is suitable for graduate students and researchers interested in number theory and its applications   Elliptic Curves Lawrence C. Washington,2008-04-03 Like its bestselling predecessor Elliptic Curves Number Theory and Cryptography Second Edition develops the theory of elliptic curves to provide a basis for both number theoretic and cryptographic applications With additional exercises this edition offers more comprehensive coverage of the fundamental theory techniques and application   **Advanced Number Theory with Applications** Richard A. Mollin,2009-08-26 Exploring one of the most dynamic areas of mathematics Advanced Number Theory with Applications covers a wide range of algebraic analytic combinatorial cryptographic and geometric aspects of number theory Written by a recognized leader in algebra and number theory the book includes a page reference for every citing in the bibliography and mo   Fundamental Number Theory with Applications, Second Edition Richard A. Mollin,2008-02-21 An update of the most accessible introductory number theory text available Fundamental Number Theory with Applications Second Edition presents a mathematically rigorous yet easy to follow treatment of the fundamentals and applications of the subject The substantial amount of reorganizing makes this edition clearer and more elementary in its coverage New to the Second Edition Removal

of all advanced material to be even more accessible in scope New fundamental material including partition theory generating functions and combinatorial number theory Expanded coverage of random number generation Diophantine analysis and additive number theory More applications to cryptography primality testing and factoring An appendix on the recently discovered unconditional deterministic polynomial time algorithm for primality testing Taking a truly elementary approach to number theory this text supplies the essential material for a first course on the subject Placed in highlighted boxes to reduce distraction from the main text nearly 70 biographies focus on major contributors to the field The presentation of over 1 300 entries in the index maximizes cross referencing so students can find data with ease **From Great Discoveries in Number Theory to Applications** Michal Křížek,Lawrence Somer,Alena Šolcová,2021-09-21 This book provides an overview of many interesting properties of natural numbers demonstrating their applications in areas such as cryptography geometry astronomy mechanics computer science and recreational mathematics In particular it presents the main ideas of error detecting and error correcting codes digital signatures hashing functions generators of pseudorandom numbers and the RSA method based on large prime numbers A diverse array of topics is covered from the properties and applications of prime numbers some surprising connections between number theory and graph theory pseudoprimes Fibonacci and Lucas numbers and the construction of Magic and Latin squares to the mathematics behind Prague s astronomical clock Introducing a general mathematical audience to some of the basic ideas and algebraic methods connected with various types of natural numbers the book will provide invaluable reading for amateurs and professionals alike *Number Theory* W.A. Coppel,2009-10-03 Number Theory is more than a comprehensive treatment of the subject It is an introduction to topics in higher level mathematics and unique in its scope topics from analysis modern algebra and discrete mathematics are all included The book is divided into two parts Part A covers key concepts of number theory and could serve as a first course on the subject Part B delves into more advanced topics and an exploration of related mathematics Part B contains for example complete proofs of the Hasse Minkowski theorem and the prime number theorem as well as self contained accounts of the character theory of finite groups and the theory of elliptic functions The prerequisites for this self contained text are elements from linear algebra Valuable references for the reader are collected at the end of each chapter It is suitable as an introduction to higher level mathematics for undergraduates or for self study **Unsolved Problems in Number Theory** Richard Guy,2013-03-09 Mathematics is kept alive by the appearance of new unsolved problems problems posed from within mathematics itself and also from the increasing number of disciplines where mathematics is applied This book provides a steady supply of easily understood if not easily solved problems which can be considered in varying depths by mathematicians at all levels of mathematical maturity For this new edition the author has included new problems on symmetric and asymmetric primes sums of higher powers Diophantine m tuples and Conway s RATS and palindromes The author has also included a useful new feature at the end of several of the sections lists of references to OEIS Neil Sloane s

Online Encyclopedia of Integer Sequences About the first Edition many talented young mathematicians will write their first papers starting out from problems found in this book Andr s S rk zi MathSciNet *A Beginner's Guide to Discrete Mathematics* W.D. Wallis,2011-10-07 Wallis s book on discrete mathematics is a resource for an introductory course in a subject fundamental to both mathematics and computer science a course that is expected not only to cover certain specific topics but also to introduce students to important modes of thought specific to each discipline Lower division undergraduates through graduate students Choice reviews Review of the First Edition Very appropriately entitled as a beginner s guide this textbook presents itself as the first exposure to discrete mathematics and rigorous proof for the mathematics or computer science student Zentralblatt Math Review of the First Edition This second edition of A Beginner s Guide to Discrete Mathematics presents a detailed guide to discrete mathematics and its relationship to other mathematical subjects including set theory probability cryptography graph theory and number theory This textbook has a distinctly applied orientation and explores a variety of applications Key Features of the second edition Includes a new chapter on the theory of voting as well as numerous new examples and exercises throughout the book Introduces functions vectors matrices number systems scientific notations and the representation of numbers in computers Provides examples which then lead into easy practice problems throughout the text and full exercise at the end of each chapter Full solutions for practice problems are provided at the end of the book This text is intended for undergraduates in mathematics and computer science however featured special topics and applications may also interest graduate students *Elliptic Curves* Lawrence C. Washington,2003-05-28 Elliptic curves have played an increasingly important role in number theory and related fields over the last several decades most notably in areas such as cryptography factorization and the proof of Fermat s Last Theorem However most books on the subject assume a rather high level of mathematical sophistication and few are truly accessible to senior undergraduate or beginning graduate students Assuming only a modest background in elementary number theory groups and fields Elliptic Curves Number Theory and Cryptography introduces both the cryptographic and number theoretic sides of elliptic curves interweaving the theory of elliptic curves with their applications The author introduces elliptic curves over finite fields early in the treatment leading readers directly to the intriguing cryptographic applications but the book is structured so that readers can explore the number theoretic aspects independently if desired By side stepping algebraic geometry in favor an approach based on basic formulas this book clearly demonstrates how elliptic curves are used and opens the doors to higher level studies Elliptic Curves offers a solid introduction to the mathematics and applications of elliptic curves that well prepares its readers to tackle more advanced problems in cryptography and number theory

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