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Number Theory
An Introduction to Mathematics

Second Edition

Number Theory An Introduction To Mathematics Universitext

Craig Smorynski

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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 **Logical Number Theory I** Craig Smorynski,2012-12-06 Number theory as studied by the logician is the subject matter of the book This first volume can stand on its own as a somewhat unorthodox introduction to mathematical logic for undergraduates dealing with the usual introductory material recursion theory first order logic completeness incompleteness and undecidability In addition its second chapter contains the most complete logical discussion of Diophantine Decision Problems available anywhere taking the reader right up to the frontiers of research yet remaining accessible to the undergraduate The first and third chapters also offer greater depth and breadth in logico arithmetical matters than can be found in existing logic texts Each chapter contains numerous exercises historical and other comments aimed at developing the student s perspective on the subject and a partially annotated bibliography Introduction to the Theory of Numbers Harold N. Shapiro,2008-01-01 Starting with the fundamentals of number theory this text advances to an intermediate level Author Harold N Shapiro Professor Emeritus of Mathematics at New York University s Courant Institute addresses this treatment toward advanced undergraduates and graduate students Selected chapters sections and exercises are appropriate for undergraduate courses The first five chapters focus on the basic material of number theory employing special problems some of which are of historical interest Succeeding chapters explore evolutions from the notion of congruence examine a variety of applications related to counting problems and develop the roots of number theory Two do it yourself chapters offer readers the chance to carry out small scale mathematical investigations that involve material covered in previous chapters Number Theory Robin Wilson,2020-05-28 Number theory is the branch of mathematics that is primarily concerned with the counting numbers Of particular importance are the prime numbers the building blocks of our number system The subject is an old one dating back over two millennia to the ancient Greeks and for many years has been studied for its intrinsic beauty and elegance not least because several of its challenges are so easy to state that everyone can understand them and yet no one has ever been able to resolve them But number theory has also recently become of great practical importance in the area of cryptography where the security of your credit card and indeed of the nation s defence depends on a result concerning prime numbers that dates back to the 18th

century Recent years have witnessed other spectacular developments such as Andrew Wiles s proof of Fermat s last theorem unproved for over 250 years and some exciting work on prime numbers In this Very Short Introduction Robin Wilson introduces the main areas of classical number theory both ancient and modern Drawing on the work of many of the greatest mathematicians of the past such as Euclid Fermat Euler and Gauss he situates some of the most interesting and creative problems in the area in their historical context ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable   *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 topics This classroom tested student friendly text covers a wide range of subjects from the ancient Euclidean algorithm for finding the greatest common divisor of two integers to recent developments that include cryptography the theory of elliptic curves and the negative solution of Hilbert s tenth problem The authors illustrate the connections between number theory and other areas of mathematics including algebra analysis and combinatorics They also describe applications of number theory to real world problems such as congruences in the ISBN system modular arithmetic and Euler s theorem in RSA encryption and quadratic residues in the construction of tournaments The book interweaves the theoretical development of the material with Mathematica and MapleTM calculations while giving brief tutorials on the software in the appendices Highlighting both fundamental and advanced topics this introduction provides all of the tools to achieve a solid foundation in number theory   **Number Theory** W.A. Coppel,2006-06-15 Undergraduate courses in mathematics are commonly of two types On the one hand are courses in subjects such as linear algebra or real analysis with which it is considered that every student of mathematics should be acquainted On the other hand are courses given by lecturers in their own areas of specialization which are intended to serve as a preparation for research But after taking courses of only these two types students might not perceive the sometimes surprising interrelationships and analogies between different branches of mathematics and students who do not go on to become professional mathematicians might never gain a clear understanding of the nature and extent of mathematics The two volume Number Theory An Introduction to Mathematics attempts to provide such an understanding of the nature and extent of mathematics It is a modern introduction to the theory of numbers emphasizing its connections with other branches of mathematics Part A which should be accessible to a first year undergraduate deals with elementary number theory Part B is more advanced than the first and should give the reader some idea of the scope of mathematics today The connecting theme is the theory of numbers at first sight one of the most abstruse

and irrelevant branches of mathematics Yet by exploring its many connections with other branches we may obtain a broad picture **Equidistribution in Number Theory, An Introduction** Andrew Granville,Zeév Rudnick,2007-04-08 From July 11th to July 22nd 2005 a NATO advanced study institute as part of the series Seminaire de mathematiques superieures was held at the U versite de Montreal on the subject Equidistribution in the theory of numbers There were about one hundred participants from sixteen countries around the world This volume presents details of the lecture series that were given at the school Across the broad panorama of topics that constitute modern number t ory one nds shifts of attention and focus as more is understood and better questions are formulated Over the last decade or so we have noticed incre ing interest being paid to distribution problems whether of rational points of zeros of zeta functions of eigenvalues etc Although these problems have been motivated from very di erent perspectives one nds that there is much in common and presumably it is healthy to try to view such questions as part of a bigger subject It is for this reason we decided to hold a school on Equidistribution in number theory to introduce junior researchers to these beautiful questions and to determine whether di erent approaches can in uence one another There are far more good problems than we had time for in our schedule We thus decided to focus on topics that are clearly inter related or do not requirealotofbackgroundtounderstand *Introduction to the Theory of Numbers* G. H. Hardy,Edward Maitland Wright,1959 Introduction to Number Theory Daniel E. Flath,2018-09-27 Growing out of a course designed to teach Gauss s Disquisitiones Arithmeticae to honors level undergraduates Flath s Introduction to Number Theory focuses on Gauss s theory of binary quadratic forms It is suitable for use as a textbook in a course or self study by advanced undergraduates or graduate students who possess a basic familiarity with abstract algebra The text treats a variety of topics from elementary number theory including the distribution of primes sums of squares continued factions the Legendre Jacobi and Kronecker symbols the class group and genera But the focus is on quadratic reciprocity several proofs are given including one that highlights the p q symmetry and binary quadratic forms The reader will come away with a good understanding of what Gauss intended in the Disquisitiones and Dirichlet in his Vorlesungen The text also includes a lovely appendix by J P Serre titled b2 4ac The clarity of the author s vision is matched by the clarity of his exposition This is a book that reveals the discovery of the quadratic core of algebraic number theory It should be on the desk of every instructor of introductory number theory as a source of inspiration motivation examples and historical insight **An Introduction to Number Theory** G. Everest,Thomas Ward,2005-11-24 An Introduction to Number Theory provides an introduction to the main streams of number theory Starting with the unique factorization property of the integers the theme of factorization is revisited several times throughout the book to illustrate how the ideas handed down from Euclid continue to reverberate through the subject A number of different approaches to number theory are presented and the different streams in the book are brought together in a chapter that describes the class number formula for quadratic fields and the famous conjectures of Birch and Swinnerton Dyer The final chapter introduces some of the main ideas behind modern computational number theory

and its applications in cryptography Written for graduate and advanced undergraduate students of mathematics this text will also appeal to students in cognate subjects who wish to learn some of the big ideas in number theory   Number Theory W.A. Coppel,2008-11-01 This two volume book is a modern introduction to the theory of numbers emphasizing its connections with other branches of mathematics Part A is accessible to first year undergraduates and deals with elementary number theory Part B is more advanced and gives the reader an idea of the scope of mathematics today The connecting theme is the theory of numbers By exploring its many connections with other branches a broad picture is obtained The book contains a treasury of proofs several of which are gems seldom seen in number theory books   **Number Theory** Henri Cohen,2008-12-17 This book deals with several aspects of what is now called explicit number theory The central theme is the solution of Diophantine equations i e equations or systems of polynomial equations which must be solved in integers rational numbers or more generally in algebraic numbers This theme in particular is the central motivation for the modern theory of arithmetic algebraic geometry In this text this is considered through three of its most basic aspects The local aspect global aspect and the third aspect is the theory of zeta and L functions This last aspect can be considered as a unifying theme for the whole subject   A Classical Introduction to Modern Number Theory Kenneth Ireland,Michael Rosen,2013-04-17 Bridging the gap between elementary number theory and the systematic study of advanced topics A Classical Introduction to Modern Number Theory is a well developed and accessible text that requires only a familiarity with basic abstract algebra Historical development is stressed throughout along with wide ranging coverage of significant results with comparatively elementary proofs some of them new An extensive bibliography and many challenging exercises are also included This second edition has been corrected and contains two new chapters which provide a complete proof of the Mordell Weil theorem for elliptic curves over the rational numbers and an overview of recent progress on the arithmetic of elliptic curves   Class Field Theory Georges Gras,2005-02-16 Global class field theory is a major achievement of algebraic number theory based on the functorial properties of the reciprocity map and the existence theorem This book explores the consequences and the practical use of these results in detailed studies and illustrations of classical subjects In the corrected second printing 2005 the author improves many details all through the book   Number Theory, Fourier Analysis and Geometric Discrepancy Giancarlo Travaglini,2014-06-12 Classical number theory is developed from scratch leading to geometric discrepancy theory with Fourier analysis introduced along the way   An Introduction to the Theory of Numbers G. H. Hardy,E. M. Wright,Joseph Silverman,2008-07-31 An Introduction to the Theory of Numbers by G H Hardy and E M Wright is found on the reading list of virtually all elementary number theory courses and is widely regarded as the primary and classic text in elementary number theory This Sixth Edition has been extensively revised and updated to guide today s students through the key milestones and developments in number theory Updates include a chapter on one of the most important developments innumber theory modular elliptic curves and their role in the proof of Fermat s Last Theorem a foreword by A

Wiles and comprehensively updated end of chapter notes detailing the key developments in numbertheory Suggestions for further reading are also included for the more avid reader and the clarity of exposition is retained throughout making this textbook highly accessible to undergraduates in mathematics from the first year upwards **Introduction to Modern Number Theory** Yu. I. Manin,Alexei A. Panchishkin,2006-03-30 This edition has been called startlingly up to date and in this corrected second printing you can be sure that it s even more contemporaneous It surveys from a unified point of view both the modern state and the trends of continuing development in various branches of number theory Illuminated by elementary problems the central ideas of modern theories are laid bare Some topics covered include non Abelian generalizations of class field theory recursive computability and Diophantine equations zeta and L functions This substantially revised and expanded new edition contains several new sections such as Wiles proof of Fermat s Last Theorem and relevant techniques coming from a synthesis of various theories Introduction to Analytic Number Theory Tom M. Apostol,2014-01-15 **The Whole Truth About Whole Numbers** Sylvia Forman,Agnes M. Rash,2015-01-02 The Whole Truth About Whole Numbers is an introduction to the field of Number Theory for students in non math and non science majors who have studied at least two years of high school algebra Rather than giving brief introductions to a wide variety of topics this book provides an in depth introduction to the field of Number Theory The topics covered are many of those included in an introductory Number Theory course for mathematics majors but the presentation is carefully tailored to meet the needs of elementary education liberal arts and other non mathematical majors The text covers logic and proofs as well as major concepts in Number Theory and contains an abundance of worked examples and exercises to both clearly illustrate concepts and evaluate the students mastery of the material *Introduction To Number Theory* Richard Michael Hill,2017-12-04 Probably its most significant distinguishing feature is that this book is more algebraically oriented than most undergraduate number theory texts MAA ReviewsIntroduction to Number Theory is dedicated to concrete questions about integers to place an emphasis on problem solving by students When undertaking a first course in number theory students enjoy actively engaging with the properties and relationships of numbers The book begins with introductory material including uniqueness of factorization of integers and polynomials Subsequent topics explore quadratic reciprocity Hensel s Lemma p adic powers series such as exp px and log 1 px the Euclidean property of some quadratic rings representation of integers as norms from quadratic rings and Pell s equation via continued fractions Throughout the five chapters and more than 100 exercises and solutions readers gain the advantage of a number theory book that focuses on doing calculations This textbook is a valuable resource for undergraduates or those with a background in university level mathematics

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