

Number Theory and Its History



Oystein Ore

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Robin Wilson



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Number Theory and Its History Øystein Ore, 1955 Number Theory and Its History Oystein Ore, 1948 Number Theory André Weil, 2006-12-22 This book presents a historical overview of number theory It examines texts that span some thirty six centuries of arithmetical work from an Old Babylonian tablet to Legendre s Essai sur la Th orie des Nombres written in 1798 Coverage employs a historical approach in the analysis of problems and evolving methods of number theory and their significance within mathematics The book also takes the reader into the workshops of four major authors of modern number theory Fermat Euler Lagrange and Legendre and presents a detailed and critical examination of their work

Number Theory Benjamin Fine, Gerhard Rosenberger, 2007-06-04 This book provides an introduction and overview of number theory based on the distribution and properties of primes This unique approach provides both a firm background in the standard material as well as an overview of the whole discipline All the essential topics are covered fundamental theorem of arithmetic theory of congruences quadratic reciprocity arithmetic functions and the distribution of primes Analytic number theory and algebraic number theory both receive a solid introductory treatment The book s user friendly style historical context and wide range of exercises make it ideal for self study and classroom use Number Theory: A Very Short Introduction 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 **Labyrinth of Thought** Jose Ferreiros, 2001-11-01 Jos Ferreir s has written a magisterial account of the history of set theory which is panoramic balanced

and engaging Not only does this book synthesize much previous work and provide fresh insights and points of view but it also features a major innovation a full fledged treatment of the emergence of the set theoretic approach in mathematics from the early nineteenth century This takes up Part One of the book Part Two analyzes the crucial developments in the last quarter of the nineteenth century above all the work of Cantor but also Dedekind and the interaction between the two Lastly Part Three details the development of set theory up to 1950 taking account of foundational questions and the emergence of the modern axiomatization Bulletin of Symbolic Logic Number Theory in Science and Communication Manfred R.

Schroeder,2013-03-09 Beauty is the first test there is no permanent place in the world for ugly mathematics G H Hardy Number theory has been considered since time immemorial to be the very paradigm of pure some would say useless mathematics In fact the Chinese characters for mathematics are Number Science Mathematics is the queen of sciences and number theory is the queen of mathematics according to Carl Friedrich Gauss the lifelong Wunderkind who himself enjoyed the epithet Princeps Mathematicorum What could be more beautiful than a deep satisfying relation between whole numbers One is almost tempted to call them wholesome numbersJ In fact it is hard to come up with a more appropriate designation than their learned name the integers meaning the untouched ones How high they rank in the realms of pure thought and aesthetics above their lesser brethren the real and complex number whose first names virtually exude unsavory involvement with the complex realities of everyday life Yet as we shall see in this book the theory of integers can provide totally unexpected answers to real world problems In fact discrete mathematics is taking on an ever more important role If nothing else the advent of the digital computer and digital communication has seen to that But even earlier in physics the emergence of quantum mechanics and discrete elementary particles put a premium on the methods and indeed the spirit of discrete mathematics *Number Theory in Science and Communication* Manfred Schroeder,2008-11-06 Number Theory in Science and Communication is a well known introduction for non mathematicians to this fascinating and useful branch of applied mathematics It stresses intuitive understanding rather than abstract theory and highlights important concepts such as continued fractions the golden ratio quadratic residues and Chinese remainders trapdoor functions pseudo primes and primitive elements Their applications to problems in the real world are one of the main themes of the book This revised fifth edition is augmented by recent advances in coding theory permutations and derangements and a chapter in quantum cryptography From reviews of earlier editions I continue to find Schroeder's Number Theory a goldmine of valuable information It is a marvelous book in touch with the most recent applications of number theory and written with great clarity and humor Philip Morrison Scientific American A light hearted and readable volume with a wide range of applications to which the author has been a productive contributor useful mathematics outside the formalities of theorem and proof Martin Gardner **Number Theory in Science and Communication** Manfred Robert Schroeder,1997 Number Theory in Science and Communication is an introduction for non mathematicians The book stresses intuitive understanding rather than abstract

theory and highlights important concepts such as continued fractions the golden ratio quadratic residues and Chinese remainders trapdoor functions pseudoprimes and primitive elements Their applications to problems in the real world is one of the main themes of the book This third edition is augmented by recent advances in primes in progressions twin primes prime triplets prime quadruplets and quintuplets factoring with elliptic curves quantum factoring Golomb rulers and baroque integers

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Rational Number Theory in the 20th Century Władysław Narkiewicz, 2011-09-02 The last one hundred years have seen many important achievements in the classical part of number theory After the proof of the Prime Number Theorem in 1896 a quick development of analytical tools led to the invention of various new methods like Brun's sieve method and the circle method of Hardy Littlewood and Ramanujan developments in topics such as prime and additive number theory and the solution of Fermat's problem Rational Number Theory in the 20th Century From PNT to FLT offers a short survey of 20th century developments in classical number theory documenting between the proof of the Prime Number Theorem and the proof of Fermat's Last Theorem The focus lays upon the part of number theory that deals with properties of integers and rational numbers Chapters are divided into five time periods which are then further divided into subject areas With the introduction of each new topic developments are followed through to the present day This book will appeal to graduate researchers and student in number theory however the presentation of main results without technicalities will make this accessible to anyone with an interest in the area

Number Theory in Mathematics Education Rina Zazkis, Stephen R. Campbell, 2012-10-12 This book offers multiple interconnected perspectives on the largely untapped potential of elementary number theory for mathematics education its formal and cognitive nature its relation to arithmetic and algebra its accessibility its utility and intrinsic merits to name just a few Its purpose is to promote explication and critical dialogue about these issues within the international mathematics education community The studies comprise a variety of pedagogical and research orientations by an international group of researchers that collectively make a compelling case for the relevance and importance of number theory in mathematics education in both pre K 16 settings and mathematics teacher education Topics variously engaged include understanding particular concepts related to numerical structure and number theory elaborating on the historical and psychological relevance of number theory in concept development attaining a smooth transition and extension from pattern recognition to formative principles appreciating the aesthetics of number structure exploring its suitability in terms of making connections leading to aha insights and reaching toward the learner's affective domain reexamining previously constructed knowledge

from a novel angle investigating connections between technique and theory utilizing computers and calculators as pedagogical tools and generally illuminating the role number theory concepts could play in developing mathematical knowledge and reasoning in students and teachers Overall the chapters of this book highlight number theory related topics as a stepping stone from arithmetic toward generalization and algebraic formalism and as a means for providing intuitively grounded meanings of numbers variables functions and proofs Number Theory in Mathematics Education Perspectives and Prospects is of interest to researchers teacher educators and students in the field of mathematics education and is well suited as a text for upper level mathematics education courses

A Textbook of Algebraic Number Theory Sudesh Kaur Khanduja, 2022-04-26 This self contained and comprehensive textbook of algebraic number theory is useful for advanced undergraduate and graduate students of mathematics The book discusses proofs of almost all basic significant theorems of algebraic number theory including Dedekind's theorem on splitting of primes Dirichlet's unit theorem Minkowski's convex body theorem Dedekind's discriminant theorem Hermite's theorem on discriminant Dirichlet's class number formula and Dirichlet's theorem on primes in arithmetic progressions A few research problems arising out of these results are mentioned together with the progress made in the direction of each problem Following the classical approach of Dedekind's theory of ideals the book aims at arousing the reader's interest in the current research being held in the subject area It not only proves basic results but pairs them with recent developments making the book relevant and thought provoking Historical notes are given at various places Featured with numerous related exercises and examples this book is of significant value to students and researchers associated with the field The book also is suitable for independent study The only prerequisite is basic knowledge of abstract algebra and elementary number theory

Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures Helaine Selin, 2013-11-11 The Encyclopaedia fills a gap in both the history of science and in cultural studies Reference works on other cultures tend either to omit science completely or pay little attention to it and those on the history of science almost always start with the Greeks with perhaps a mention of the Islamic world as a translator of Greek scientific works The purpose of the Encyclopaedia is to bring together knowledge of many disparate fields in one place and to legitimize the study of other cultures science Our aim is not to claim the superiority of other cultures but to engage in a mutual exchange of ideas The Western academic divisions of science technology and medicine have been united in the Encyclopaedia because in ancient cultures these disciplines were connected This work contributes to redressing the balance in the number of reference works devoted to the study of Western science and encourages awareness of cultural diversity The Encyclopaedia is the first compilation of this sort and it is testimony both to the earlier Eurocentric view of academia as well as to the widened vision of today There is nothing that crosses disciplinary and geographic boundaries dealing with both scientific and philosophical issues to the extent that this work does

xi PERSONAL NOTE FROM THE EDITOR Many years ago I taught African history at a secondary school in Central Africa

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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.

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Mathematics and Its History John Stillwell, 2013-04-17 From the reviews of the first edition: There are many books on the history of mathematics in which mathematics is subordinated to history. This is a book in which history is definitely subordinated to mathematics. It can be described as a collection of critical historical essays dealing with a large variety of mathematical disciplines and issues, and intended for a broad audience. We know of no book on mathematics and its history that covers half as much nonstandard material. Even when dealing with standard material, Stillwell manages to dramatize it and to make it worth rethinking. In short, his book is a splendid addition to the genre of works that build royal roads to mathematical culture for the many. Mathematical Intelligencer The discussion is at a deep enough level that I suspect most trained mathematicians will find much that they do not know as well as good intuitive explanations of familiar facts. The careful exposition, lightness of touch, and the absence of technicalities should make the book accessible to most senior undergraduates. American Mathematical Monthly

Number Theory in the Spirit of Ramanujan Bruce C. Berndt, 2006 Ramanujan is recognized as one of the great number theorists of the twentieth century. Here now is the first book to provide an introduction to his work in number theory. Most of Ramanujan's work in number theory arose out of q series and theta functions. This book provides an introduction to these two important subjects and to some of the topics in number theory that are inextricably intertwined with them, including the theory of partitions, sums of squares, and triangular numbers, and the Ramanujan tau function. The majority of the results discussed here are originally due to Ramanujan or were rediscovered by him. Ramanujan did not leave us proofs of the thousands of theorems he recorded in his notebooks, and so it cannot be claimed that many of the proofs given in this book are those found by Ramanujan. However,

they are all in the spirit of his mathematics The subjects examined in this book have a rich history dating back to Euler and Jacobi and they continue to be focal points of contemporary mathematical research Therefore at the end of each of the seven chapters Berndt discusses the results established in the chapter and places them in both historical and contemporary contexts The book is suitable for advanced undergraduates and beginning graduate students interested in number theory

A History of Abstract Algebra Israel Kleiner, 2007-10-02 This book explores the history of abstract algebra It shows how abstract algebra has arisen in attempting to solve some of these classical problems providing a context from which the reader may gain a deeper appreciation of the mathematics involved

Introduction to Global Variational Geometry Demeter Krupka, 2000-04-01 This book provides a comprehensive introduction to modern global variational theory on fibred spaces It is based on differentiation and integration theory of differential forms on smooth manifolds and on the concepts of global analysis and geometry such as jet prolongations of manifolds mappings and Lie groups The book will be invaluable for researchers and PhD students in differential geometry global analysis differential equations on manifolds and mathematical physics and for the readers who wish to undertake further rigorous study in this broad interdisciplinary field Featured topics Analysis on manifolds Differential forms on jet spaces Global variational functionals Euler Lagrange mapping Helmholtz form and the inverse problem Symmetries and the Noether s theory of conservation laws Regularity and the Hamilton theory Variational sequences Differential invariants and natural variational principles First book on the geometric foundations of Lagrange structures New ideas on global variational functionals Complete proofs of all theorems Exact treatment of variational principles in field theory inc general relativity Basic structures and tools global analysis smooth manifolds fibred spaces

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