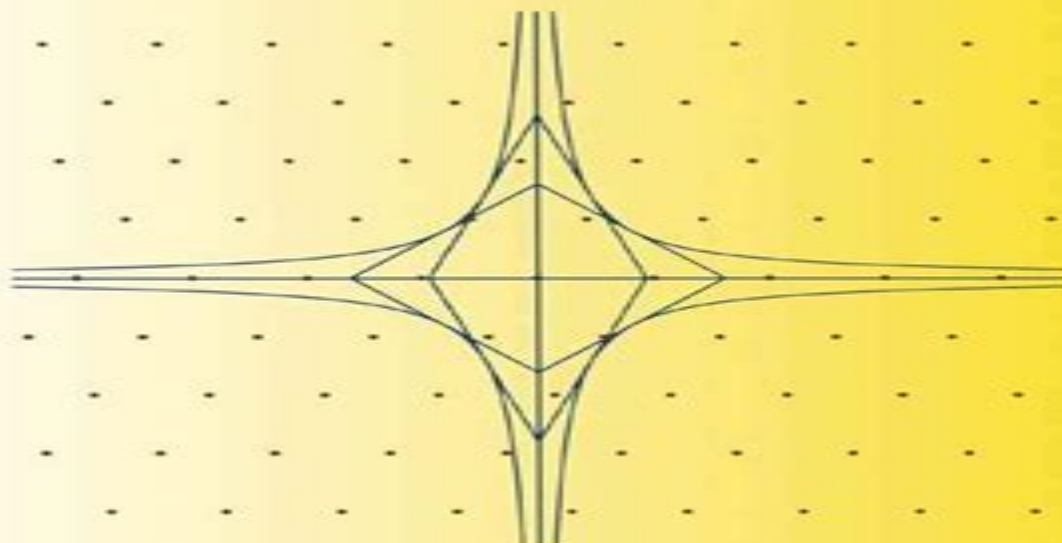


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TOPICS IN THE THEORY OF NUMBERS



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Topics In The Theory Of Numbers Undergraduate Texts In Mathematics

Michael Rajnik



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Topics in the Theory of Numbers Janos Suranyi, Paul Erdős, 2003-01-14 Number theory the branch of mathematics that studies the properties of the integers is a repository of interesting and quite varied problems sometimes impossibly difficult ones In this book the authors have gathered together a collection of problems from various topics in number theory that they find beautiful intriguing and from a certain point of view instructive

Elements of Number Theory John Stillwell, 2012-11-12 This book is intended to complement my *Elements of Algebra* and it is similarly motivated by the problem of solving polynomial equations However it is independent of the algebra book and probably easier In *Elements of Algebra* we sought solution by radicals and this led to the concepts of fields and groups and their fusion in the celebrated theory of Galois In the present book we seek integer solutions and this leads to the concepts of rings and ideals which merge in the equally celebrated theory of ideals due to Kummer and Dedekind Solving equations in integers is the central problem of number theory so this book is truly a number theory book with most of the results found in standard number theory courses However numbers are best understood through their algebraic structure and the necessary algebraic concepts rings and ideals have no better motivation than number theory The first nontrivial examples of rings appear in the number theory of Euler and Gauss The concept of ideal today as routine in ring theory as the concept of normal subgroup is in group theory also emerged from number theory and in quite heroic fashion Faced with failure of unique prime factorization in the arithmetic of certain generalized integers Kummer created in the 1840s a new kind of number to overcome the difficulty He called them ideal numbers because he did not know exactly what they were though he knew how they behaved

The Real Numbers John Stillwell, 2013-10-16 While most texts on real analysis are content to assume the real numbers or to treat them only briefly this text makes a serious study of the real number system and the issues it brings to light Analysis needs the real numbers to model the line and to support the concepts of continuity and measure But these seemingly simple requirements lead to deep issues of set theory uncountability the axiom of choice and large cardinals In fact virtually all the concepts of infinite set theory are needed for a proper understanding of the real numbers and hence of analysis itself By focusing on the set theoretic aspects of analysis this text makes the best of two worlds it combines a down to earth introduction to set theory with an exposition of the essence of analysis the study of infinite processes on the real numbers It is intended for senior undergraduates but it will also be attractive to graduate students and professional mathematicians who until now have been content to assume the real numbers Its prerequisites are calculus and basic mathematics Mathematical history is woven into the text explaining how the concepts of real number and infinity developed to meet the needs of analysis from ancient times to the late twentieth century This rich presentation of history along with a background of proofs examples exercises and explanatory remarks will help motivate the reader The material covered includes classic topics from both set theory and real analysis courses such as countable and uncountable sets countable ordinals the continuum problem the

Cantor Schr der Bernstein theorem continuous functions uniform convergence Zorn s lemma Borel sets Baire functions Lebesgue measure and Riemann integrable functions *Topics from the Theory of Numbers* Emil Grosswald,2010-02-23

Many of the important and creative developments in modern mathematics resulted from attempts to solve questions that originate in number theory The publication of Emil Grosswald s classic text presents an illuminating introduction to number theory Combining the historical developments with the analytical approach *Topics from the Theory of Numbers* offers the reader a diverse range of subjects to investigate including 1 divisibility 2 congruences 3 the Riemann zeta function 4 Diophantine equations and Fermat s conjecture 5 the theory of partitions Comprehensive in nature *Topics from the Theory of Numbers* is an ideal text for advanced undergraduates and graduate students alike *Certain Number-Theoretic Episodes In Algebra* Sivaramakrishnan R,R Sivaramakrishnan,2006-09-22 Many basic ideas of algebra and number theory intertwine making it ideal to explore both at the same time *Certain Number Theoretic Episodes in Algebra* focuses on some important aspects of interconnections between number theory and commutative algebra Using a pedagogical approach the author presents the conceptual foundations of commutati **Numbers and Geometry** John Stillwell,2012-09-28 A beautiful and relatively elementary account of a part of mathematics where three main fields algebra analysis and geometry meet The book provides a broad view of these subjects at the level of calculus without being a calculus book Its roots are in arithmetic and geometry the two opposite poles of mathematics and the source of historic conceptual conflict The resolution of this conflict and its role in the development of mathematics is one of the main stories in the book Stillwell has chosen an array of exciting and worthwhile topics and elegantly combines mathematical history with mathematics He covers the main ideas of Euclid but with 2000 years of extra insights attached Presupposing only high school algebra it can be read by any well prepared student entering university Moreover this book will be popular with graduate students and researchers in mathematics due to its attractive and unusual treatment of fundamental topics A set of well written exercises at the end of each section allows new ideas to be instantly tested and reinforced 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

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

Explorations in Number Theory Cam McLeman, Erin McNicholas, Colin Starr, 2022-11-22 This innovative undergraduate textbook approaches number theory through the lens of abstract algebra Written in an engaging and whimsical style this text will introduce students to rings groups fields and other algebraic structures as they discover the key concepts of elementary number theory Inquiry based learning IBL appears throughout the chapters allowing students to develop insights for upcoming sections while simultaneously strengthening their understanding of previously covered topics The text is organized around three core themes the notion of what a number is and the premise that it takes familiarity with a large variety of number systems to fully explore number theory the use of Diophantine equations as catalysts for introducing and developing structural ideas and the role of abstract algebra in number theory in particular the extent to which it provides the Fundamental Theorem of Arithmetic for various new number systems Other aspects of modern number theory including the study of elliptic curves the analogs between integer and polynomial arithmetic p -adic arithmetic and relationships between the spectra of primes in various rings are included in smaller but persistent threads woven through chapters and exercise sets Each chapter concludes with exercises organized in four categories Calculations and Informal Proofs Formal Proofs Computation and Experimentation and General Number Theory Awareness IBL Exploration worksheets appear in many sections some of which involve numerical investigations To assist students who may not have experience with programming languages Python worksheets are available on the book's website The final chapter provides five additional IBL explorations that reinforce and expand what students have learned and can be used as starting points for independent projects The topics covered in these explorations are public key cryptography Lagrange's four square theorem units and Pell's Equation various cases of the solution to Fermat's Last Theorem and a peek into other deeper mysteries of algebraic number theory Students should have a basic familiarity with complex numbers matrix algebra vector spaces and proof techniques as well as a spirit of

adventure to explore the numberverse **Real Analysis** Miklós Laczkovich, Vera T. Sós, 2017-12-14 This book develops the theory of multivariable analysis building on the single variable foundations established in the companion volume *Real Analysis Foundations and Functions of One Variable* Together these volumes form the first English edition of the popular Hungarian original *Val s Anal zis I* infinite numerical series sequences and series of functions and applications to other areas of mathematics Many historical notes are given and there is an emphasis on conceptual understanding and context be it within mathematics itself or more broadly in applications such as physics By developing the student s intuition throughout many definitions and results become motivated by insights from their context All the Math You Missed Thomas A.

Garrrity, 2021-07 Fill in any gaps in your knowledge with this overview of key topics in undergraduate mathematics now with four new chapters **From Fermat to Minkowski** W. Scharlau, H. Opolka, 2013-03-09 This book arose from a course of

lectures given by the first author during the winter term 1977/1978 at the University of Münster West Germany The course was primarily addressed to future high school teachers of mathematics it was not meant as a systematic introduction to number theory but rather as a historically motivated invitation to the subject designed to interest the audience in number theoretical questions and developments This is also the objective of this book which is certainly not meant to replace any of the existing excellent texts in number theory Our selection of topics and examples tries to show how in the historical development the investigation of obvious or natural questions has led to more and more comprehensive and profound theories how again and again surprising connections between seemingly unrelated problems were discovered and how the introduction of new methods and concepts led to the solution of hitherto unassailable questions All this means that we do not present the student with polished proofs which in turn are the fruit of a long historical development rather we try to show how these theorems are the necessary consequences of natural questions Two examples might illustrate our objectives

Number Theoretic Methods Shigeru Kanemitsu, Chaohua Jia, 2013-03-14 This volume contains the proceedings of the very successful second China Japan Seminar held in Iizuka Fukuoka Japan during March 12-16 2001 under the support of the Japan Society for the Promotion of Science JSPS and the National Science Foundation of China NSFC and some invited papers of eminent number theorists who visited Japan during 1999-2001 at the occasion of the Conference at the Research Institute of Mathematical Sciences RIMS Kyoto University The proceedings of the 1st China Japan Seminar held in September 1999 in Beijing has been published recently 2002 by Kluwer as DEVM 6 which also contains some invited papers The topics of that volume are however restricted to analytic number theory and many papers in this field are assembled In this volume we return to the lines of the previous one *Number Theory and its Applications* published as DEVM 2 by Kluwer in 1999 and uphold the spirit of presenting various topics in number theory and related areas with possible applications in a unified manner and this time in nearly a book form with a well prepared index We accomplish this task by collecting highly informative and readable survey papers including half survey type papers giving overlooking surveys of the hitherto

obtained results in up to the hour form with insight into the new developments which are then analytically continued to a collection of high standard research papers which are concerned with rather diversified areas and will give good insight into new researches in the new century

Number Theory William Judson Leveque, Ernst Gabor Straus, 1969 [Subject Guide to Books in Print](#), 1996

Introduction to Analytic Number Theory Tom M. Apostol, 2013-06-29 This book is the first volume of a two volume textbook for undergraduates and is indeed the crystallization of a course offered by the author at the California Institute of Technology to undergraduates without any previous knowledge of number theory For this reason the book starts with the most elementary properties of the natural integers Nevertheless the text succeeds in presenting an enormous amount of material in little more than 300 pages

MATHEMATICAL REVIEWS

Logic and Structure Dirk van Dalen, 2013-11-11 Logic appears in a sacred and in a profane form The sacred form is dominant in proof theory the profane form in model theory The phenomenon is not unfamiliar one observes this dichotomy also in other areas e g set theory and recursion theory For one reason or another such as the discovery of the set theoretical paradoxes Cantor Russell or the definability paradoxes Richard Berry a subject is treated for some time with the utmost awe and diffidence As a rule however sooner or later people start to treat the matter in a more free and easy way Being raised in the sacred tradition I was greatly surprised and some what shocked when I observed Hartley Rogers teaching recursion theory to mathematicians as if it were just an ordinary course in say linear algebra or algebraic topology In the course of time I have come to accept his viewpoint as the didactically sound one before going into esoteric niceties one should develop a certain feeling for the subject and obtain a reasonable amount of plain working knowledge For this reason I have adopted the profane attitude in this introductory text reserving the more sacred approach for advanced courses Readers who want to know more about the latter aspect of logic are referred to the immortal texts of Hilbert Bernays or Kleene

Topics in Number Theory J.S. Chahal, 2013-11-11 This book reproduces with minor changes the notes prepared for a course given at Brigham Young University during the academic year 1984 1985 It is intended to be an introduction to the theory of numbers The audience consisted largely of undergraduate students with no more background than high school mathematics The presentation was thus kept as elementary and self contained as possible However because the discussion was generally carried far enough to introduce the audience to some areas of current research the book should also be useful to graduate students The only prerequisite to reading the book is an interest in and aptitude for mathematics Though the topics may seem unrelated the study of diophantine equations has been our main goal I am indebted to several mathematicians whose published as well as unpublished work has been freely used throughout this book In particular the Phillips Lectures at Haverford College given by Professor John T Tate have been an important source of material for the book Some parts of Chapter 5 on algebraic curves are for example based on these lectures

Newsletter New Zealand Mathematical Society, 2002 [Quaestiones Mathematicae](#), 2003

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