Schaum Number Theory

Number TheoryNumber TheoryElements of Number TheoryNumber TheoryA Comprehensive Course in Number TheoryElementary Number TheoryNumber TheoryFundamentals of Number TheoryIntroduction to Number TheoryNumber TheoryA Classical Introduction to Modern Number TheoryNumber TheoryAn Introduction to Number TheoryIntroduction to Modern Number TheoryNuggets of Number TheoryElementary Number TheoryA Course in Number TheoryExcursions in Number TheoryBeginning Number TheoryNumber Theory With Applications Tristin Cleveland Robin J. Wilson John Stillwell George E. Andrews Alan Baker Gareth A. Jones Benjamin Fine William J. LeVeque Anthony Vazzana W?adys?aw Narkiewicz Kenneth Ireland John J. Watkins G. Everest Yu. I. Manin Roger B. Nelsen James S. Kraft H. E. Rose Charles Stanley Ogilvy Neville Robbins Wen-ching Li

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in spite of the fact that arithmetic majors are generally familiar with number hypothesis when they have finished a course in conceptual polynomial math different students particularly those in training and the human sciences regularly require a more essential prologue to the theme in this book the writer takes care of the issue of keeping up the enthusiasm of understudies at the two levels by offering a combinatorial way to deal with basic number hypothesis in concentrate number hypothesis from such a point of view arithmetic majors are saved reiteration and furnished with new bits of knowledge while different understudies advantage from the subsequent effortlessness of the verifications for some hypotheses of specific significance in this content is the creator s accentuation on the estimation of numerical cases in number hypothesis and the part of pcs in getting such illustrations the point of this book is to acquaint the reader with essential subjects in number hypothesis hypothesis of distinctness arithmetrical capacities prime numbers geometry of numbers added substance number hypothesis probabilistic number hypothesis hypothesis of diophantine approximations and logarithmic number hypothesis

number theory is the branch of mathematics primarily concerned with the counting numbers especially primes it dates back to the ancient greeks but today it has great practical importance in cryptography from credit card security to national defence this book introduces the main areas of number theory and some of its most interesting problems

solutions of equations in integers is the central problem of number theory and is the focus of this book the amount of material is suitable for a one semester course the author has tried to avoid the ad hoc proofs in favor of unifying ideas that work in many situations there are exercises at the end of almost every section so that each new idea or proof receives immediate reinforcement

undergraduate text uses combinatorial approach to accommodate both math majors and liberal arts students covers the basics of number theory offers an outstanding introduction to partitions plus chapters on multiplicativity divisibility quadratic congruences additivity and more

developed from the author s popular text a concise introduction to the theory of numbers this book provides a comprehensive initiation to all the major branches of number theory beginning with the rudiments of the subject the author proceeds to more advanced topics including elements of cryptography and primality testing an account of number fields in the classical vein including properties of their units ideals and ideal classes aspects of analytic number theory including studies of the riemann zeta function the prime number theorem and primes in arithmetical progressions a description of the hardy littlewood and sieve methods from respectively additive and multiplicative number theory and an exposition of the arithmetic of elliptic curves the book includes many worked examples exercises and further reading its wider coverage and versatility make this book suitable for courses extending from the elementary to beginning graduate studies

our intention in writing this book is to give an elementary introduction to number theory which does not demand a great deal of mathematical back ground or maturity from the reader and which can be read and understood with no extra assistance our first three chapters are based almost entirely on a level mathematics while the next five require little else beyond some el ementary group theory it is only in the last three chapters where we treat more advanced topics including recent developments that we require greater mathematical background here we use some basic ideas which students would expect to meet in the first year or so of a typical undergraduate course in math ematics throughout the book we have attempted to explain our arguments as fully and as clearly as possible with plenty of worked examples and with outline solutions for all the exercises there are several good reasons for choosing number theory as a subject it has a long and interesting history ranging from the earliest recorded times to the present day see chapter 11 for instance on fermat s last theorem and its problems have attracted many of the greatest mathematicians consequently the study of number theory is an excellent introduction to the development and achievements of mathematics and indeed some

of its failures in particular the explicit nature of many of its problems concerning basic properties of inte gers makes number theory a particularly suitable subject in which to present modern mathematics in elementary terms

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

this excellent textbook introduces the basics of number theory incorporating the language of abstract algebra a knowledge of such algebraic concepts as group ring field and domain is not assumed however all terms are defined and examples are given making the book self contained in this respect the author begins with an introductory chapter on number theory and its early history subsequent chapters deal with unique factorization and the gcd quadratic residues number theoretic functions and the distribution of primes sums of squares quadratic equations and quadratic fields diophantine approximation and more included are discussions of topics not always found in introductory texts factorization and primality of large integers p adic numbers algebraic number fields brun s theorem on twin primes and the transcendence of e to mention a few readers will find a substantial number of well chosen problems along with many notes and bibliographical references selected for readability and relevance five helpful appendixes containing such study aids as a factor table computer plotted graphs a table of indices the greek alphabet and a list of symbols and a bibliography round out this well written text which is directed toward undergraduate majors and beginning graduate students in mathematics no post calculus prerequisite is assumed 1977 edition

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

the aim of this book is to familiarize the reader with fundamental topics in number theory theory of divisibility arithmetrical functions prime numbers geometry of numbers additive number theory probabilistic number theory theory of diophantine approximations and algebraic number theory the author tries to show the connection between number theory and other branches of mathematics with the resultant tools adopted in the book ranging from algebra to probability theory but without exceeding the undergraduate students who wish to be acquainted with number theory graduate students intending to specialize in this field and researchers requiring the present state of knowledge

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

an introductory textbook with a unique historical approach to teaching number theory the natural numbers have been studied for thousands of years yet most undergraduate textbooks present number theory as a long list of theorems with little mention of how these results were discovered or why they are important this book emphasizes the historical development of number theory describing methods theorems and proofs in the contexts in which they originated and providing an accessible introduction to one of the most fascinating subjects in mathematics written in an informal style by an award winning teacher number theory covers prime numbers fibonacci numbers and a host of other essential topics in number theory while also telling the stories of the great mathematicians behind these developments including euclid carl friedrich gauss and sophie germain this one of a kind introductory textbook features an extensive set of problems that enable students to actively reinforce and extend their understanding of the material as well as fully worked solutions for many of these problems it also includes helpful hints for when students are unsure of how to get started on a given problem uses a unique historical approach to teaching number theory features numerous problems helpful hints and fully worked solutions discusses fun topics like pythagorean tuning in music sudoku puzzles and arithmetic progressions of primes includes an introduction to sage an easy to learn yet powerful open source mathematics software package ideal for undergraduate mathematics majors as well as non math majors digital solutions manual available only to professors

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

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

nuggets of number theory will attract fans of visual thinking number theory and surprising connections this book contains hundreds of visual explanations of results from elementary number theory figurate numbers and pythagorean triples feature prominently of course but there are also proofs of fermat s little and wilson s theorems fibonacci and perfect numbers pell s equation and continued fractions all find visual representation in this charming collection it will be a rich source of visual inspiration for anyone teaching or learning number theory and will provide endless pleasure to those interested in looking at number theory with new eyes author roger nelsen is a long time contributor of proofs without words in the maa s mathematics magazine and college mathematics journal this is his twelfth book with maa press

elementary number theory takes an accessible approach to teaching students about the role of number theory in pure mathematics and its important applications to cryptography and other areas the first chapter of the book explains how to do proofs and includes a brief discussion of lemmas propositions theorems and corollaries the core of the tex

the second edition of this undergraduate textbook is now available in paperback covering up to date as well as established material it is the only textbook which deals with all the main areas of number theory taught in the third year of a mathematics course each chapter ends with a collection of problems and hints and sketch solutions are provided at the end of the book together with useful tables

challenging accessible mathematical adventures involving prime numbers number patterns irrationals and iterations calculating prodigies and more no special training is needed just high school mathematics and an inquisitive mind a splendidly written well selected and presented collection i recommend the book unreservedly to all readers martin gardner

thoroughly revised and updated the new second edition of neville robbins beginning number theory includes all of the major topics covered in a classic number theory course and blends in numerous applications and specialized treatments of number theory including cryptology fibonacci numbers and computational number theory the text strikes a balance between traditional and algorithmic approaches to elementary number theory and is supported with numerous exercises applications and case studies throughout computer exercises for cas systems are also included

novel and important applications of number theory to graph theory and vice versa had been

made in the past decade the two main tools used are based on the estimates of character sums and the estimates of the eigenvalues of hecke operators both are rooted in the celebrated weil conjectures settled by deligne in 1973 the purpose of this book is to give from scratch a coherent and comprehensive introduction to the topics in number theory related to the central tools with the ultimate goal of presenting their applications this book includes many important subjects in number theory such as weil conjectures riemann roch theorem l functions character sum estimates modular forms and representation theory

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