

Schaum Number Theory

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Introduction to Number Theory
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A Comprehensive Course in Number Theory
Introduction to Modern Number Theory
Modern Number Theory
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Invitation to Number Theory
A Course in Number Theory
George E. Andrews
Tristin Cleveland
Gareth A. Jones
Titu Andreescu
Robin J. Wilson
Anthony Vazzana
William J. LeVeque
Wadsworth
Narkiewicz
Benjamin Fine
Don Redmond
Wen-ching Li
John Stillwell
James S. Kraft
Alan Baker
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Richard Friedberg
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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

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 arithmetical capacities prime numbers geometry of numbers added substance number hypothesis probabilistic number hypothesis hypothesis of diophantine approximations and logarithmic number hypothesis

our intention in writing this book is to give an elementary introduction to number theory which does not demand a great deal of mathematical background 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 elementary 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 mathematics 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 integers makes number theory a particularly suitable subject in which to present modern mathematics in elementary terms

this introductory textbook takes a problem solving approach to number theory situating each concept within the framework of an example or a problem for solving starting with the essentials the text covers divisibility unique factorization modular arithmetic and the chinese remainder theorem diophantine equations binomial coefficients fermat and mersenne primes and other special numbers and special sequences included are sections on mathematical induction and the pigeonhole principle as well as a discussion of other number systems by emphasizing examples and applications the authors motivate and engage readers

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

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

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

the aim of this book is to familiarize the reader with fundamental topics in number theory theory of divisibility arithmetical 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

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 text provides a detailed introduction to number theory demonstrating how other areas of mathematics enter into the study of the properties of natural numbers it contains problem sets within each section and at the end of each chapter to reinforce essential concepts and includes up to date information on divisibility problems polynomial congruence the sums of squares and trigonometric sums five or more copies may be ordered by college or university bookstores at a special price available on application

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

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

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 text

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

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

this witty introduction to number theory deals with the properties of numbers and numbers as abstract concepts topics include primes divisibility quadratic forms and related theorems

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

this handbook covers a wealth of topics from number theory special attention being given to estimates and inequalities as a rule the most important results are presented together with their refinements extensions or generalisations these may be applied to other aspects of number theory or to a wide range of mathematical disciplines cross references provide new insight into fundamental research audience this is an indispensable reference work for specialists in number theory and other mathematicians who need access to some of these results in their own fields of research

number theory is the branch of mathematics concerned with the counting numbers 1 2 3 and their multiples and factors of particular importance are odd and even numbers squares and cubes and prime numbers but in spite of their simplicity you will meet a multitude of topics in this book magic squares cryptarithms finding the day of the week for a given date constructing regular polygons pythagorean triples and many more in this revised edition john watkins and robin wilson have updated the text to bring it in line with contemporary developments they have added new material on fermat s last theorem the role of computers in number theory and the use of number theory in cryptography and have made numerous minor changes in the presentation and layout of the text and the exercises

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

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Introduction

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