

Elementary Number Theory

- The systematic study of number theory was initiated around 300B.C.
- Number theory deals with the theory of numbers and is probably one of the oldest branches of mathematics.
- **Prime Numbers**
- An integer $n > 1$ is prime if the only positive divisors of n are 1 and n . We call n composite if n is not prime.
- The number 1 is neither prime nor composite.
- **The Fundamental Theorem of Arithmetic**
- For any integer $a \geq 2$, it can be expressed as a product of prime numbers:
- $a = p_1^{a_1} \cdot p_2^{a_2} \cdots p_i^{a_i}$
- $p_1 < p_2 < \cdots < p_i$ are prime numbers, each a_i is positive integers
- The fundamental theorem of arithmetic (FTA), also called the *unique factorization theorem* or the *unique-prime-factorization theorem*.

Elementary Number Theory

Hans Rademacher



Elementary Number Theory:

Elementary Number Theory Gareth A. Jones, Josephine M. Jones, 1998-07-31 An undergraduate level introduction to number theory with the emphasis on fully explained proofs and examples Exercises together with their solutions are integrated into the text and the first few chapters assume only basic school algebra Elementary ideas about groups and rings are then used to study groups of units quadratic residues and arithmetic functions with applications to enumeration and cryptography The final part suitable for third year students uses ideas from algebra analysis calculus and geometry to study Dirichlet series and sums of squares In particular the last chapter gives a concise account of Fermat's Last Theorem from its origin in the ancient Babylonian and Greek study of Pythagorean triples to its recent proof by Andrew Wiles [A Guide to Elementary Number Theory](#) Underwood Dudley, 2009-12-31 An introductory guide to elementary number theory for advanced undergraduates and graduates **Elementary Number Theory** David M. Burton, 2007 Elementary Number Theory Sixth Edition is written for the one semester undergraduate number theory course taken by math majors secondary education majors and computer science students This contemporary text provides a simple account of classical number theory set against a historical background that shows the subject's evolution from antiquity to recent research Written in David Burton's engaging style Elementary Number Theory reveals the attraction that has drawn leading mathematicians and amateurs alike to number theory over the course of history [Elementary Number Theory](#) Underwood Dudley, 2012-06-04 Written in a lively engaging style by the author of popular mathematics books this volume features nearly 1 000 imaginative exercises and problems Some solutions included 1978 edition [Elementary Number Theory with Programming](#) Marty Lewinter, Jeanine Meyer, 2015-05-06 A highly successful presentation of the fundamental concepts of number theory and computer programming Bridging an existing gap between mathematics and programming Elementary Number Theory with Programming provides a unique introduction to elementary number theory with fundamental coverage of computer programming Written by highly qualified experts in the fields of computer science and mathematics the book features accessible coverage for readers with various levels of experience and explores number theory in the context of programming without relying on advanced prerequisite knowledge and concepts in either area Elementary Number Theory with Programming features comprehensive coverage of the methodology and applications of the most well known theorems problems and concepts in number theory Using standard mathematical applications within the programming field the book presents modular arithmetic and prime decomposition which are the basis of the public private key system of cryptography In addition the book includes Numerous examples exercises and research challenges in each chapter to encourage readers to work through the discussed concepts and ideas Select solutions to the chapter exercises in an appendix Plentiful sample computer programs to aid comprehension of the presented material for readers who have either never done any programming or need to improve their existing skill set A related website with links to select exercises An Instructor's

Solutions Manual available on a companion website Elementary Number Theory with Programming is a useful textbook for undergraduate and graduate level students majoring in mathematics or computer science as well as an excellent supplement for teachers and students who would like to better understand and appreciate number theory and computer programming The book is also an ideal reference for computer scientists programmers and researchers interested in the mathematical applications of programming

Elementary Number Theory Charles Vanden Eynden, 2006-02-15 This practical and versatile text evolved from the author's years of teaching experience and the input of his students Vanden Eynden strives to alleviate the anxiety that many students experience when approaching any proof oriented area of mathematics including number theory His informal yet straightforward writing style explains the ideas behind the process of proof construction showing that mathematicians develop theorems and proofs from trial and error and evolutionary improvement not spontaneous insight Furthermore the book includes more computational problems than most other number theory texts to build students familiarity and confidence with the theory behind the material The author has devised the content organization and writing style so that information is accessible students can gain self confidence with respect to mathematics and the book can be used in a wide range of courses from those that emphasize history and type A problems to those that are proof oriented

Elementary Number Theory David M. Burton, 1988 Elementary Theory of Numbers C. Y. Hsiung, 1992 This book explains clearly and in detail the basic concepts and methods of calculations of the elementary theory of numbers It consists of 7 chapters illustrated by numerous examples and exercises Answers together with some hints to the exercises are given at the end of the book It may be used as a textbook for undergraduate students

Elementary Number Theory James S. Kraft, Lawrence C. Washington, 2014-11-24 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

Elementary Number Theory with Applications Thomas Koshy, 2002 Elementary Number Theory focuses on number theory's role in the rapid development of art coding theory cryptography computer science and other necessities of modern life confirming that human ingenuity and creativity are boundless

EBOOK: Elementary Number Theory David Burton, 2010-06-16 Elementary Number Theory Seventh Edition is written for the one semester undergraduate number theory course taken by math majors secondary education majors and computer science students This contemporary text provides a simple account of classical number theory set against a historical background that shows the subject's evolution from antiquity to recent research Written in David Burton's engaging style Elementary Number Theory reveals the attraction that has drawn leading mathematicians and amateurs alike to number theory over the course of history

Elementary Number Theory and Its Applications Kenneth H. Rosen, 1993 New edition of a standard text Integrates classical material with applications to cryptography and computer science The author is with AT T Bell Labs Annotation

copyright Book News Inc Portland Or *Elementary Number Theory* Underwood Dudley,1978 With almost a thousand imaginative exercises and problems this book stimulates curiosity about numbers and their properties *Elementary Number Theory* Efraim P. Armendáriz,Stephen McAdam,1980-01-01 Elementary Number Theory Ethan D. Bolker,2007-03-15 This text uses the concepts usually taught in the first semester of a modern abstract algebra course to illuminate classical number theory theorems on primitive roots quadratic Diophantine equations and the Fermat conjecture for exponents three and four The text contains abundant numerical examples and a particularly helpful collection of exercises many of which are small research problems requiring substantial study or outside reading Some problems call for new proofs for theorems already covered or for inductive explorations and proofs of theorems found in later chapters **An Introductory Course in Elementary Number Theory** Wissam Raji,2013-05-09 These notes serve as course notes for an undergraduate course in number theory Most if not all universities worldwide offer introductory courses in number theory for math majors and in many cases as an elective course The notes contain a useful introduction to important topics that need to be addressed in a course in number theory Proofs of basic theorems are presented in an interesting and comprehensive way that can be read and understood even by non majors with the exception in the last three chapters where a background in analysis measure theory and abstract algebra is required The exercises are carefully chosen to broaden the understanding of the concepts Moreover these notes shed light on analytic number theory a subject that is rarely seen or approached by undergraduate students One of the unique characteristics of these notes is the careful choice of topics and its importance in the theory of numbers The freedom is given in the last two chapters because of the advanced nature of the topics that are presented **Lectures on Elementary Number Theory** Hans Rademacher,1977 **Elementary Number Theory: Primes, Congruences, and Secrets** William Stein,2009-01-08 Classical number theory and elliptic curves are examined in this textbook which moves on from elementary topics such as primes continued fractions and quadratic forms to elliptic curves and their applications to algorithmic and number theory problems Elementary Number Theory Boris Alekseevich Venkov,1970 **Analytic and Elementary Number Theory** Paul Erdős,1998-09-30 This volume contains a collection of papers in Analytic and Elementary Number Theory in memory of Professor Paul Erd s one of the greatest mathematicians of this century Written by many leading researchers the papers deal with the most recent advances in a wide variety of topics including arithmetical functions prime numbers the Riemann zeta function probabilistic number theory properties of integer sequences modular forms partitions and q series Audience Researchers and students of number theory analysis combinatorics and modular forms will find this volume to be stimulating

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