Elementary Number Theory

James K. Strayer

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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 covers linear Diophantine equations unique factorization congruences Fermat s Euler s and Wilson s theorems order and primitive roots and quadratic reciprocity The authors also discuss numerous cryptographic topics such as RSA and discrete logarithms along with recent developments The book offers many pedagogical features The check your understanding problems scattered throughout the chapters assess whether students have learned essential information At the end of every chapter exercises reinforce an understanding of the material Other exercises introduce new and interesting ideas while computer exercises reflect the kinds of explorations that number theorists often carry out in their research   Elementary Number Theory James K. Strayer,2001-12-04 In this student friendly text Strayer presents all of the topics necessary for a first course in number theory Additionally chapters on primitive roots Diophantine equations and continued fractions allow instructors the flexibility to tailor the material to meet their own classroom needs Each chapter concludes with seven Student Projects one of which always involves programming a calculator or computer All of the projects not only engage students in solving number theoretical problems but also help familiarize them with the relevant mathematical literature   *Elementary Number Theory* David M. Burton,1988   Elementary Number Theory with Applications, Student Solutions Manual Thomas Koshy,2002-04-30 This is a student solutions manual for Elementary Number Theory with Applications 1st edition by Thomas Koshy 2002 Note that the textbook itself is not included in this purchase From the back cover of the textbook Modern technology has brought a new dimension to the power of number theory constant practical use Once considered the purest of pure mathematics number theory has become an essential tool in the rapid development of technology in a number of areas including art coding theory cryptology and computer science The range of fascinating applications confirms the boundlessness of human ingenuity and creativity Elementary Number Theory captures the author s fascination for the subject its beauty elegance and historical development and the opportunities number theory provides for experimentation exploration and of course its marvelous applications **Elementary Number Theory** John Burton,1994-09   **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 cryptology computer science and other necessities of modern life confirming that human ingenuity and creativity are boundless   Student's Solutions Manual Elementary Number Theory David Burton,2010-01-29   **Student's Solutions Manual for Use with Elementary Number Theory** David M. Burton,2001-09   **Academic American Encyclopedia** ,1998 A twenty one volume set of encyclopedias providing an alphabetical listing of information on a variety of topics

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 V.K. Krishnan,2012   **A Guide to Elementary Number Theory** Underwood Dudley,2009-12-31 An introductory guide to elementary number theory for advanced undergraduates and graduates   Elementary Theory of Numbers Hsiung,1995   **Elementary Number Theory** Boris Alekseevich Venkov,1970   **Elementary Number Theory** Underwood Dudley,2008-09-25 Minimal prerequisites make this text ideal for a first course in number theory Written in a lively engaging style by the author of popular mathematics books it features nearly 1 000 imaginative exercises and problems Solutions to many of the problems are included and a teacher s guide is available 1978 edition   Elementary Methods in Number Theory Melvyn B. Nathanson,2008-01-11 This basic introduction to number theory is ideal for those with no previous knowledge of the subject The main topics of divisibility congruences and the distribution of prime numbers are covered Of particular interest is the inclusion of a proof for one of the most famous results in mathematics the prime number theorem With many examples and exercises and only requiring knowledge of a little calculus and algebra this book will suit individuals with imagination and interest in following a mathematical argument to its conclusion   *AB Bookman's Weekly* ,1996   INIS Atomindeks ,1980   **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004   Forthcoming Books Rose Arny,1995-02

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