

COMPUTATIONAL NUMBER THEORY



ABHIJIT DAS



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Computational Number Theory Discrete Mathematics And Its Applications

**Thomas W. Cusick, Cunsheng Ding, Ari
R. Renvall**



Computational Number Theory Discrete Mathematics And Its Applications:

Computational Number Theory Abhijit Das, 2013-03-18 Developed from the author's popular graduate level course Computational Number Theory presents a complete treatment of number theoretic algorithms Avoiding advanced algebra this self contained text is designed for advanced undergraduate and beginning graduate students in engineering It is also suitable for researchers new to the field and practitioners of cryptography in industry Requiring no prior experience with number theory or sophisticated algebraic tools the book covers many computational aspects of number theory and highlights important and interesting engineering applications It first builds the foundation of computational number theory by covering the arithmetic of integers and polynomials at a very basic level It then discusses elliptic curves primality testing algorithms for integer factorization computing discrete logarithms and methods for sparse linear systems The text also shows how number theoretic tools are used in cryptography and cryptanalysis A dedicated chapter on the application of number theory in public key cryptography incorporates recent developments in pairing based cryptography With an emphasis on implementation issues the book uses the freely available number theory calculator GP PARI to demonstrate complex arithmetic computations The text includes numerous examples and exercises throughout and omits lengthy proofs making the material accessible to students and practitioners

Fundamental Number Theory with Applications Richard A. Mollin, 1997-09-10 Beginning with the arithmetic of the rational integers and proceeding to an introduction of algebraic number theory via quadratic orders Fundamental Number Theory with Applications reveals intriguing new applications of number theory This text details aspects of computer science related to cryptography factoring primality testing complexity analysis computer arithmetic computational number theory Fundamental Number Theory with Applications also covers Carmichael numbers Dirichlet products Jacobsthal sums Mersenne primes perfect numbers powerful numbers self contained numbers Numerous exercises are included testing the reader's knowledge of the concepts covered introducing new and interesting topics and providing a venue to learn background material Written by a professor and author who is an accomplished scholar in this field this book provides the material essential for an introduction to the fundamentals of number theory

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Computational Number Theory and Modern Cryptography Song Y. Yan, 2013-01-29 The only book to provide a unified view of the interplay

between computational number theory and cryptography Computational number theory and modern cryptography are two of the most important and fundamental research fields in information security In this book Song Y Yang combines knowledge of these two critical fields providing a unified view of the relationships between computational number theory and cryptography The author takes an innovative approach presenting mathematical ideas first thereupon treating cryptography as an immediate application of the mathematical concepts The book also presents topics from number theory which are relevant for applications in public key cryptography as well as modern topics such as coding and lattice based cryptography for post quantum cryptography The author further covers the current research and applications for common cryptographic algorithms describing the mathematical problems behind these applications in a manner accessible to computer scientists and engineers Makes mathematical problems accessible to computer scientists and engineers by showing their immediate application Presents topics from number theory relevant for public key cryptography applications Covers modern topics such as coding and lattice based cryptography for post quantum cryptography Starts with the basics then goes into applications and areas of active research Geared at a global audience classroom tested in North America Europe and Asia Includes exercises in every chapter Instructor resources available on the book's Companion Website Computational Number Theory and Modern Cryptography is ideal for graduate and advanced undergraduate students in computer science communications engineering cryptography and mathematics Computer scientists practicing cryptographers and other professionals involved in various security schemes will also find this book to be a helpful reference

Computing and Combinatorics Oscar H. Ibarra, Louxin Zhang, 2003-08-02 This book constitutes the refereed proceedings of the 8th Annual International Computing and Combinatorics Conference COCOON 2002 held in Singapore in August 2002 The 60 revised full papers presented together with three invited contributions were carefully reviewed and selected from 106 submissions The papers are organized in topical sections on complexity theory discrete algorithms computational biology and learning theory radio networks automata and formal languages Internet networks computational geometry combinatorial optimization and quantum computing

Cryptography and Computational Number Theory Kwok Y. Lam, Igor Shparlinski, Huaxiong Wang, Chaoping Xing, 2013-03-07 This volume contains the refereed proceedings of the Workshop on Cryptography and Computational Number Theory CCNT 99 which has been held in Singapore during the week of November 22-26 1999 The workshop was organized by the Centre for Systems Security of the National University of Singapore We gratefully acknowledge the financial support from the Singapore National Science and Technology Board under the grant number RP960668 M The idea for this workshop grew out of the recognition of the recent rapid development in various areas of cryptography and computational number theory The event followed the concept of the research programs at such well known research institutions as the Newton Institute UK Oberwolfach and Dagstuhl Germany and Luminy France Accordingly there were only invited lectures at the workshop with plenty of time for informal discussions It was hoped and successfully

achieved that the meeting would encourage and stimulate further research in information and computer security as well as in the design and implementation of number theoretic cryptosystems and other related areas Another goal of the meeting was to stimulate collaboration and more active interaction between mathematicians computer scientists practical cryptographers and engineers in academia industry and government

Algebraic Aspects of Digital Communications Tanush

Shaska,Engjell Hasimaj,2009 Proceedings of the NATO Advanced Study Institute on New Challenges in Digital

Communications Vlora Albania 27 April 9 May 2008 T p verso Combinatorics Nicholas Loehr,2017-08-10 Combinatorics

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Stream Ciphers and Number Theory Thomas W. Cusick,Cunsheng Ding,Ari R.

Renvall,2004-02-17 This is the unique book on cross fertilisations between stream ciphers and number theory It

systematically and comprehensively covers known connections between the two areas that are available only in research papers Some parts of this book consist of new research results that are not available elsewhere In addition to exercises over thirty research problems are presented in this book In this revised edition almost every chapter was updated and some chapters were completely rewritten It is useful as a textbook for a graduate course on the subject as well as a reference book for researchers in related fields Unique book on interactions of stream ciphers and number theory Research monograph with many results not available elsewhere A revised edition with the most recent advances in this subject Over thirty research problems for stimulating interactions between the two areas Written by leading researchers in stream ciphers and number theory

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