

COMPUTATIONAL NUMBER THEORY



ABHIJIT DAS

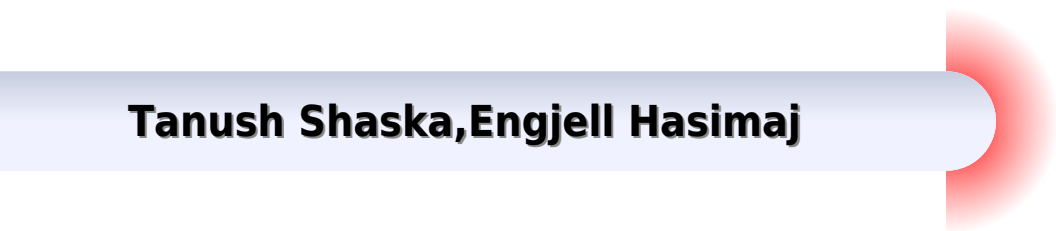


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Computational Number Theory Discrete Mathematics And Its Applications

Tanush Shaska, Engjell Hasimaj



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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 Second Edition is a well rounded general introduction to the subjects of enumerative bijective and algebraic combinatorics The textbook emphasizes bijective proofs which provide elegant solutions to counting problems by setting up one to one correspondences between two sets of combinatorial objects The author has written the textbook to be accessible to readers without any prior background in abstract algebra or combinatorics Part I of the second edition develops an array of mathematical tools to solve counting problems basic counting rules recursions inclusion exclusion techniques generating functions bijective proofs and linear algebraic methods These tools are used to analyze combinatorial structures such as words permutations subsets functions graphs trees lattice paths and much more Part II cover topics in algebraic combinatorics including group actions permutation statistics symmetric functions and tableau combinatorics This edition provides greater coverage of the use of ordinary and exponential generating functions as a problem solving tool Along with two new chapters several new sections and improved exposition throughout the textbook is brimming with many examples and exercises of various levels of difficulty **Stream Ciphers and Number**

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