A Course in
Computational
Number Theory

David Bressoud   Stan Wagon

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Didier Musso

Course In Computational Number Theory:

A Course in Computational Algebraic Number Theory Henri Cohen,2000-08-01 A description of 148 algorithms fundamental to number theoretic computations in particular for computations related to algebraic number theory elliptic curves primality testing and factoring The first seven chapters guide readers to the heart of current research in computational algebraic number theory including recent algorithms for computing class groups and units as well as elliptic curve computations while the last three chapters survey factoring and primality testing methods including a detailed description of the number field sieve algorithm The whole is rounded off with a description of available computer packages and some useful tables backed by numerous exercises Written by an authority in the field and one with great practical and teaching experience this is certain to become the standard and indispensable reference on the subject   *A Course in Computational Number Theor* David Bressoud,S. Wagon,2000-05-11 The accompanying CD Rom contains Mathematica files with all the commands and programs P 4 of cover   **A Course in Computational Algebraic Number Theory** Henri Cohen,2013-04-17 With the advent of powerful computing tools and numerous advances in math ematics computer science and cryptography algorithmic number theory has become an important subject in its own right Both external and internal pressures gave a powerful impetus to the development of more powerful al gorithms These in turn led to a large number of spectacular breakthroughs To mention but a few the LLL algorithm which has a wide range of appli cations including real world applications to integer programming primality testing and factoring algorithms sub exponential class group and regulator algorithms etc Several books exist which treat parts of this subject It is essentially impossible for an author to keep up with the rapid pace of progress in all areas of this subject Each book emphasizes a different area corresponding to the author s tastes and interests The most famous but unfortunately the oldest is Knuth s Art of Computer Programming especially Chapter 4 The present book has two goals First to give a reasonably comprehensive introductory course in computational number theory In particular although we study some subjects in great detail others are only mentioned but with suitable pointers to the literature Hence we hope that this book can serve as a first course on the subject A natural sequel would be to study more specialized subjects in the existing literature   COURSE IN COMPUTATIONAL ALGEBRAIC NUMBER THEORY ,1993   **Quantum Computational Number Theory** Song Y. Yan,2015-12-26 This book provides a comprehensive introduction to advanced topics in the computational and algorithmic aspects of number theory focusing on applications in cryptography Readers will learn to develop fast algorithms including quantum algorithms to solve various classic and modern number theoretic problems Key problems include prime number generation primality testing integer factorization discrete logarithms elliptic curve arithmetic conjecture and numerical verification The author discusses quantum algorithms for solving the Integer Factorization Problem IFP the Discrete Logarithm Problem DLP and the Elliptic Curve Discrete Logarithm Problem ECDLP and for attacking IFP DLP and ECDLP based cryptographic systems Chapters also

cover various other quantum algorithms for Pell s equation principal ideal unit group class group Gauss sums prime counting function Riemann s hypothesis and the BSD conjecture Quantum Computational Number Theory is self contained and intended to be used either as a graduate text in computing communications and mathematics or as a basic reference in the related fields Number theorists cryptographers and professionals working in quantum computing cryptography and network security will find this book a valuable asset   *A Course in Number Theory and Cryptography* Neal Koblitz,1994-09-02 This is a substantially revised and updated introduction to arithmetic topics both ancient and modern that have been at the centre of interest in applications of number theory particularly in cryptography As such no background in algebra or number theory is assumed and the book begins with a discussion of the basic number theory that is needed The approach taken is algorithmic emphasising estimates of the efficiency of the techniques that arise from the theory and one special feature is the inclusion of recent applications of the theory of elliptic curves Extensive exercises and careful answers are an integral part all of the chapters   Computational Number Theory Abhijit Das,2016-04-19 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 pract   *A Computational Introduction to Number Theory and Algebra* Victor Shoup,2005-04-28 This introductory book emphasises algorithms and applications such as cryptography and error correcting codes   Advanced Topics in Computational Number Theory Henri Cohen,2012-10-29 The computation of invariants of algebraic number fields such as integral bases discriminants prime decompositions ideal class groups and unit groups is important both for its own sake and for its numerous applications for example to the solution of Diophantine equations The practical com pletion of this task sometimes known as the Dedekind program has been one of the major achievements of computational number theory in the past ten years thanks to the efforts of many people Even though some practical problems still exist one can consider the subject as solved in a satisfactory manner and it is now routine to ask a specialized Computer Algebra Sys tem such as Kant Kash liDIA Magma or Pari GP to perform number field computations that would have been unfeasible only ten years ago The very numerous algorithms used are essentially all described in A Course in Com putational Algebraic Number Theory GTM 138 first published in 1993 third corrected printing 1996 which is referred to here as CohO That text also treats other subjects such as elliptic curves factoring and primality testing Itis important and natural to generalize these algorithms Several gener alizations can be considered but the most important are certainly the gen eralizations to global function fields finite extensions of the field of rational functions in one variable overa finite field and to relative extensions ofnum ber fields As in CohO in the present book we will consider number fields only and not deal at all with function fields   Public-key Cryptography and Computational Number Theory Kazimierz Alster,Jerzy Urbanowicz,Hugh C. Williams,2001 The series is aimed specifically at publishing peer reviewed reviews and contributions

presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications **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 Incudes 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 **Notes from the International Autumn School on Computational Number Theory** Ilker Inam,Engin Büyükaşık,2019-04-17 This volume collects lecture notes and research articles from the International Autumn School on Computational Number Theory which was held at the Izmir Institute of Technology from October 30th to November 3rd 2017 in Izmir Turkey Written by experts in computational number theory the chapters cover a variety of the most important aspects of the field By including timely research and survey articles the text also helps pave a path to future advancements Topics include Modular forms L functions The modular symbols algorithm Diophantine equations Nullstellensatz Eisenstein series Notes from the International Autumn School on Computational Number Theory will offer graduate students an invaluable introduction to computational number theory In addition it provides the state of the art of the field and will thus be of interest to researchers interested in the field aswell **A Course in Computational Number Theory** David M. Bressoud,S. Wagon,2000 The accompanying CD Rom contains Mathematica files with all the commands and programs Page 4 of cover *A Course in Computational Number Theor* David Bressoud,S.

Wagon,2000-05-11 The accompanying CD Rom contains Mathematica files with all the commands and programs P 4 of cover
   Algorithmic Number Theory ,2004   **Cryptology and Computational Number Theory** Carl Pomerance,Shafi Goldwasser,1990 In the past dozen or so years cryptology and computational number theory have become increasingly intertwined Because the primary cryptologic application of number theory is the apparent intractability of certain computations these two fields could part in the future and again go their separate ways But for now their union is continuing to bring ferment and rapid change in both subjects This book contains the proceedings of an AMS Short Course in Cryptology and Computational Number Theory held in August 1989 during the Joint Mathematics Meetings in Boulder Colorado These eight papers by six of the top experts in the field will provide readers with a thorough introduction to some of the principal advances in cryptology and computational number theory over the past fifteen years In addition to an extensive introductory article the book contains articles on primality testing discrete logarithms integer factoring knapsack cryptosystems pseudorandom number generators the theoretical underpinnings of cryptology and other number theory based cryptosystems Requiring only background in elementary number theory this book is aimed at nonexperts including graduate students and advanced undergraduates in mathematics and computer science   **CWI Quarterly** ,1994   **Algorithms and Computation** ,1999   **Journal de théorie des nombres de Bordeaux** ,2006   *The Mathematica Journal* ,1995

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