

# **Graduate Texts in Mathematics**

**Henri Cohen**

## **Advanced Topics in Computational Number Theory**



**Springer**

# Advanced Topics In Computational Number Theory

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## **Advanced Topics In Computational Number Theory Graduate Texts In Mathematics:**

**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 completion 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 System 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 Computational 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 It is important and natural to generalize these algorithms Several generalizations can be considered but the most important are certainly the generalizations to global function fields finite extensions of the field of rational functions in one variable over a finite field and to relative extensions of number fields As in CohO in the present book we will consider number fields only and not deal at all with function fields

**Algorithmic Number Theory** J. P. Buhler,P. Stevenhagen,2008-10-20 An introduction to number theory for beginning graduate students with articles by the leading experts in the field **Algorithmic Number Theory** Duncan Buell,2004-06 This book constitutes the refereed proceedings of the 6th International Algorithmic Number Theory Symposium ANTS 2004 held in Burlington VT USA in June 2004 The 30 revised full papers presented together with 3 invited papers were carefully reviewed and selected for inclusion in the book Among the topics addressed are zeta functions elliptic curves hyperelliptic curves GCD algorithms number field computations complexity primality testing Weil and Tate pairings cryptographic algorithms function field sieve algebraic function field mapping quartic fields cubic number fields lattices discrete logarithms and public key cryptosystems

**Numerical Algorithms for Number Theory: Using Pari/GP** Karim Belabas, Henri Cohen,2021-06-23 This book presents multiprecision algorithms used in number theory and elsewhere such as extrapolation numerical integration numerical summation including multiple zeta values and the Riemann Siegel formula evaluation and speed of convergence of continued fractions Euler products and Euler sums inverse Mellin transforms and complex L L functions For each task many algorithms are presented such as Gaussian and doubly exponential integration Euler MacLaurin Abel Plana Lagrange and Monien summation Each algorithm is given in detail together with a complete implementation in the free Pari GP system These implementations serve both to make even more precise the inner workings of the algorithms and to gently introduce advanced features of the Pari GP language This book will be appreciated by anyone interested in number theory specifically in practical implementations computer experiments and numerical algorithms that

can be scaled to produce thousands of digits of accuracy

**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.

**A Course in Computational Algebraic Number Theory** Henri Cohen, 2013-04-17 With the advent of powerful computing tools and numerous advances in mathematics, 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 algorithms. 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 applications 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.

**Arithmetic, Geometry, Cryptography, and Coding Theory** 2021 Samuele Anni, Valentijn Karemaker, Elisa Lorenzo García, 2022-07-06 This volume contains the proceedings of the 18th International Conference on Arithmetic, Geometry, Cryptography and Coding Theory, held online from May 31 to June 4 2021. For over thirty years the biennial international conference AGCT Arithmetic, Geometry, Cryptography and Coding Theory has brought researchers together to forge connections between arithmetic, geometry and its applications to coding theory and to cryptography. The papers illustrate the fruitful interaction between

abstract theory and explicit computations covering a large range of topics including Belyi maps Galois representations attached to elliptic curves reconstruction of curves from their Jacobians isogeny graphs of abelian varieties hypergeometric equations and Drinfeld modules   **Advanced Topics in Computational Number Theory** Henri Cohen,2011-04-13

**Advances in Cryptology** ,2005   **Algorithmic Number Theory** ,2002   **Journal de théorie des nombres de Bordeaux** ,2003   **Nonlinearity** ,2007   **Mathematical Reviews** ,2008   **Advances in Cryptology--ASIACRYPT** ,2005   **Newsletter** New Zealand Mathematical Society,2004   **Quadratic Forms and Quaternion Algebras** John Michael Voight,2005   **The British National Bibliography** Arthur James Wells,2000   **An Introduction to Number Theory** G. Everest,Thomas Ward,2005-11-24 An Introduction to Number Theory provides an introduction to the main streams of number theory Starting with the unique factorization property of the integers the theme of factorization is revisited several times throughout the book to illustrate how the ideas handed down from Euclid continue to reverberate through the subject A number of different approaches to number theory are presented and the different streams in the book are brought together in a chapter that describes the class number formula for quadratic fields and the famous conjectures of Birch and Swinnerton Dyer The final chapter introduces some of the main ideas behind modern computational number theory and its applications in cryptography Written for graduate and advanced undergraduate students of mathematics this text will also appeal to students in cognate subjects who wish to learn some of the big ideas in number theory   **Advances in Cryptology — ASIACRYPT 2001** Colin Boyd,2001-11-28 This book constitutes the refereed proceedings of the 7th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2001 held in Gold Coast Australia in December 2001 The 33 revised full papers presented together with an invited paper were carefully reviewed and selected from 153 submissions The papers are organized in topical sections on lattice based cryptography human identification practical public key cryptography cryptography based on coding theory block ciphers provable security threshold cryptography two party protocols zero knowledge cryptographic building blocks elliptic curve cryptography and anonymity   **Subject Guide to Books in Print** ,1997

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## **Table of Contents Advanced Topics In Computational Number Theory Graduate Texts In Mathematics**

1. Understanding the eBook Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - The Rise of Digital Reading Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - User-Friendly Interface

4. Exploring eBook Recommendations from Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - Personalized Recommendations
  - Advanced Topics In Computational Number Theory Graduate Texts In Mathematics User Reviews and Ratings
  - Advanced Topics In Computational Number Theory Graduate Texts In Mathematics and Bestseller Lists
5. Accessing Advanced Topics In Computational Number Theory Graduate Texts In Mathematics Free and Paid eBooks
  - Advanced Topics In Computational Number Theory Graduate Texts In Mathematics Public Domain eBooks
  - Advanced Topics In Computational Number Theory Graduate Texts In Mathematics eBook Subscription Services
  - Advanced Topics In Computational Number Theory Graduate Texts In Mathematics Budget-Friendly Options
6. Navigating Advanced Topics In Computational Number Theory Graduate Texts In Mathematics eBook Formats
  - ePUB, PDF, MOBI, and More
  - Advanced Topics In Computational Number Theory Graduate Texts In Mathematics Compatibility with Devices
  - Advanced Topics In Computational Number Theory Graduate Texts In Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - Highlighting and Note-Taking Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - Interactive Elements Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
8. Staying Engaged with Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
9. Balancing eBooks and Physical Books Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain

- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Advanced Topics In Computational Number Theory Graduate Texts In Mathematics

- Setting Reading Goals Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Advanced Topics In Computational Number Theory Graduate Texts In Mathematics

- Fact-Checking eBook Content of Advanced Topics In Computational Number Theory Graduate Texts In Mathematics
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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