

Graduate Texts in Mathematics

Henri Cohen

A Course in Computational Algebraic Number Theory



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Course In Computational Algebraic Number Theory

Wolfgang Guggemos



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A Course in Computational Algebraic Number Theory Henri Cohen, 1993 Describes 148 algorithms that are fundamental for number theoretic computations including computations related to algebraic number theory elliptic curves primality testing and factoring A complete theoretical introduction is given for each subject reducing prerequisites to a minimum The detailed description of each algorithm allows immediate

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

COURSE IN COMPUTATIONAL ALGEBRAIC NUMBER THEORY, 1993 Computational Algebra and Number Theory Wieb Bosma, Alf van der Poorten, 2013-03-09 Computers have stretched the limits of what is possible in mathematics More they have given rise to new fields of mathematical study the analysis of new and traditional algorithms the creation of new paradigms for implementing computational methods the viewing of old techniques from a concrete algorithmic vantage point to name but a few Computational Algebra and Number Theory lies at the lively intersection of computer science and mathematics It highlights the surprising width and depth of the field through examples drawn from current activity ranging from category theory graph theory and combinatorics to more classical computational areas such as group theory and number theory Many of the papers in the book provide a survey of their topic as well as a description of present research Throughout the variety of mathematical and computational fields represented the emphasis is placed on the common principles and the methods employed Audience Students experts and those performing current research in any of the topics mentioned above

Computational Algebraic Number Theory M.E. Pohst, 2012-12-06 Computational algebraic number theory has been attracting broad interest in the last few years due to its potential applications in coding theory and cryptography For this reason the Deutsche Mathematiker Vereinigung initiated an introductory graduate seminar on this topic in D sseldorf The

lectures given there by the author served as the basis for this book which allows fast access to the state of the art in this area Special emphasis has been placed on practical algorithms all developed in the last five years for the computation of integral bases the unit group and the class group of arbitrary algebraic number fields Contents Introduction Topics from finite fields Arithmetic and polynomials Factorization of polynomials Topics from the geometry of numbers Hermite normal form Lattices Reduction Enumeration of lattice points Algebraic number fields Introduction Basic Arithmetic Computation of an integral basis Integral closure Round Two Method Round Four Method Computation of the unit group Dirichlet's unit theorem and a regulator bound Two methods for computing r independent units Fundamental unit computation Computation of the class group Ideals and class number A method for computing the class group Appendix The number field sieve KANT References Index

Algorithmic Algebraic Number Theory M. Pohst, H. Zassenhaus, 1997-09-25 Now in paperback this classic book is addressed to all lovers of number theory On the one hand it gives a comprehensive introduction to constructive algebraic number theory and is therefore especially suited as a textbook for a course on that subject On the other hand many parts go beyond an introduction and make the user familiar with recent research in the field For experimental number theoreticians new methods are developed and new results are obtained which are of great importance for them Both computer scientists interested in higher arithmetic and those teaching algebraic number theory will find the book of value

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A Textbook of Algebraic Number Theory Sudesh Kaur Khanduja, 2022-04-26 This self contained and comprehensive textbook of algebraic number theory is useful for advanced undergraduate and graduate students of mathematics The book discusses proofs of almost all basic significant theorems of algebraic number theory including Dedekind's theorem on splitting of primes Dirichlet's unit theorem Minkowski's convex body theorem Dedekind's discriminant theorem Hermite's theorem on discriminant Dirichlet's class number formula and Dirichlet's theorem on primes in arithmetic progressions A few research problems arising out of these results are mentioned together with the progress made in the direction of each problem

Following the classical approach of Dedekind's theory of ideals the book aims at arousing the reader's interest in the current research being held in the subject area. It not only proves basic results but pairs them with recent developments making the book relevant and thought provoking. Historical notes are given at various places. Featured with numerous related exercises and examples, this book is of significant value to students and researchers associated with the field. The book also is suitable for independent study. The only prerequisite is basic knowledge of abstract algebra and elementary number theory.

Algorithmic Algebra and Number Theory B. Heinrich Matzat, Gert-Martin Greuel, Gerhard Hiss, 2012-12-06 This book contains 22 lectures presented at the final conference of the German research program Schwerpunktprogramm Algorithmic Number Theory and Algebra 1991-1997 sponsored by the Deutsche Forschungsgemeinschaft. The purpose of this research program and of the meeting was to bring together developers of computer algebra software and researchers using computational methods to gain insight into experimental problems and theoretical questions in algebra and number theory. The book gives an overview on algorithmic methods and on results obtained during this period. This includes survey articles on the main research projects within the program: algorithmic number theory emphasizing class field theory, constructive Galois theory, computational aspects of modular forms and of Drinfeld modules, computational algebraic geometry including real quantifier elimination and real algebraic geometry and invariant theory of finite groups, computational aspects of presentations and representations of groups especially finite groups of Lie type and their Hecke algebras and of the isomorphism problem in group theory. Some of the articles illustrate the current state of computer algebra systems and program packages developed with support by the research program such as KANT and LiDIA for algebraic number theory, SINGULAR, RED, LOG and INVAR for commutative algebra and invariant theory respectively and GAP, SYSPHOS and CHEVIE for group theory and representation theory.

Algorithmic Number Theory Wieb Bosma, 2006-12-30 This book constitutes the refereed proceedings of the 4th International Algorithmic Number Theory Symposium ANTS IV held in Leiden, The Netherlands in July 2000. The book presents 36 contributed papers which have gone through a thorough round of reviewing, selection and revision. Also included are 4 invited survey papers. Among the topics addressed are gcd algorithms, primality, factoring, sieve methods, cryptography, linear algebra, lattices, algebraic number fields, class groups and fields, elliptic curves, polynomials, function fields and power sums.

Algorithmic Number Theory Claus Fieker, David R. Kohel, 2002-06-26 Self-organized criticality (SOC) has become a magic word in various scientific disciplines; it provides a framework for understanding complexity and scale invariance in systems showing irregular fluctuations. In the first 10 years after Per Bak and his co-workers presented their seminal idea, more than 2000 papers on this topic appeared. Seismology has been a field in earth sciences where the SOC concept has already deepened the understanding, but there seem to be much more examples in earth sciences where applying the SOC concept may be fruitful. After introducing the reader into the basics of fractals, chaos and SOC, the book presents established and new applications of SOC in earth sciences, namely earthquakes, forest fires,

landslides and drainage networks

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

Number Theory for the Millennium III Bruce Berndt, M.A. Bennett, N. Boston, H.G. Diamond, A.J. Hildebrand, W. Phillpp, 2023-03-17 Building on the tradition of an outstanding series of conferences at the University of Illinois at Urbana Champaign the organizers attracted an international group of scholars to open the new Millennium with a conference that reviewed the current state of number theory research and pointed to future directions in the field The conference was the largest general number theory conference in recent history featuring a total of 159 talks with the plenary lectures given by George Andrews Jean Bourgain Kevin Ford Ron Graham Andrew Granville Roger Heath Brown Christopher Hooley Winnie Li Kumar Murty Mel Nathanson Ken Ono Carl Pomerance Bjorn Poonen Wolfgang Schmidt Chris Skinner K Soundararajan Robert Tijdeman Robert Vaughan and Hugh Williams The Proceedings Volumes of the conference review some of the major number theory achievements of this century and to chart some of the directions in which the subject will be heading during the new century These volumes will serve as a useful reference to researchers in the area and an introduction to topics of current interest in number theory for a general audience in mathematics

Fermat's Last Theorem Harold M. Edwards, 2000-01-14 This introduction to algebraic number theory via the famous problem of Fermat's Last Theorem follows its historical development beginning with the work of Fermat and ending with Kummer's theory of ideal factorization The more elementary topics such as Euler's proof of the impossibility of $x^n + y^n = z^n$ are treated in an uncomplicated way and new concepts and techniques are introduced only after having been motivated by specific problems The book also covers in detail the application of Kummer's theory to quadratic integers and relates this to Gauss theory of binary quadratic forms an interesting and important connection that is not explored in any other book

Public-Key Cryptography and Computational Number Theory Kazimierz Alster, Jerzy Urbanowicz, Hugh C.

Williams, 2011-06-24 The Proceedings contain twenty selected refereed contributions arising from the International Conference on Public Key Cryptography and Computational Number Theory held in Warsaw Poland on September 11 15 2000 The conference attended by eightyfive mathematicians from eleven countries was organized by the Stefan Banach International Mathematical Center This volume contains articles from leading experts in the world on cryptography and computational number theory providing an account of the state of research in a wide variety of topics related to the conference theme It is dedicated to the memory of the Polish mathematicians Marian Rejewski 1905 1980 Jerzy Rycki 1909 1942 and Henryk Zygalski 1907 1978 who deciphered the military version of the famous Enigma in December 1932 January 1933 A noteworthy feature of the volume is a foreword written by Andrew Odlyzko on the progress in cryptography from Enigma time until now *Certain Number-Theoretic Episodes In Algebra* Sivaramakrishnan R, R

Sivaramakrishnan, 2006-09-22 Many basic ideas of algebra and number theory intertwine making it ideal to explore both at the same time *Certain Number Theoretic Episodes in Algebra* focuses on some important aspects of interconnections between number theory and commutative algebra Using a pedagogical approach the author presents the conceptual foundations of commutative algebra **Surveys in Number Theory** Bruce Berndt, M.A. Bennett, N. Boston, H.G. Diamond, A.J.

Hildebrand, W. Philipp, 2002-11-20 This volume based on fourteen papers from the Millennial Conference on Number Theory represents surveys of topics in number theory and provides an outlook into the future of number theory research It serves as an inspiration to graduate students and as a reference for research mathematicians **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 *The LLL Algorithm* Phong Q. Nguyen, Brigitte Vallée, 2009-12-02 The

first book to offer a comprehensive view of the LLL algorithm this text surveys computational aspects of Euclidean lattices and their main applications It includes many detailed motivations explanations and examples *Algebraic Geometry* Robin

Hartshorne, 1977-12-19 This book provides an introduction to abstract algebraic geometry It includes more than 400 exercises that offer specific examples as well as more specialized topics From the reviews Enables the reader to make the drastic transition between the basic intuitive questions about affine and projective varieties with which the subject begins and the elaborate general methodology of schemes and cohomology employed currently to answer these questions

MATHEMATICAL REVIEWS

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