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Basics of constructive algebraic number theory

1.1. Introduction

Algebraic numbers are defined as complex numbers x satisfying an *algebraic equation* of the form

$$a_0x^n + a_1x^{n-1} + \dots + a_n = 0 \quad (n \in \mathbb{N}; a_i \in \mathbb{Z} \ (0 \leq i \leq n), a_0 \neq 0). \quad (1.1)$$

We are not satisfied merely with the existence of algebraic numbers such as, for instance,

- the natural numbers $1, 2, 3, \dots (\mathbb{N})$,
- rational integers $0, \pm 1, \pm 2, \dots (\mathbb{Z})$,
- rational numbers $0, \pm 1, \pm \frac{1}{2}, \pm 2, \pm \frac{1}{3}, \pm \frac{2}{3}, \pm 3, \dots (\mathbb{Q})$,
- surds $r^{1/n}$ ($r \in \mathbb{Q}, n \in \mathbb{N}, n \geq 2$);

we also inspect the means of constructing them. For this purpose we employ *algorithms*.

We shall not endeavour to give a definition of algorithms in terms of mathematical logics. Our algorithms consist of a stated input, a stated output and a finite number of well-defined steps. The input and output will usually be rational integers and quantities (such as fractions, algebraic integers, integral matrices) derived from rational integers by stated rules. The steps are numbered from 1 to n ($n \in \mathbb{N}$). They consist of statements which use the known data (from the input, or already calculated) to obtain new data by unique mathematical rules. The steps are usually carried out one after the other. But there can also be a jump from step i to step k ($k \neq i + 1$) depending on the value of some data. The mathematical rules for the computation of new data and for the decision, whether a jump occurs, are fixed throughout the whole algorithm. During the execution of the algorithm a certain step i ($1 \leq i \leq n$) may be carried out several times, say $N(i)$ times, depending on the input data. However, all numbers $N(i)$ ($1 \leq i \leq n$) must be finite.

Computational Algebraic Number Theory D M V Seminar

Michael Seilmaier



Computational Algebraic Number Theory D M V Seminar:

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

[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 **Algebraic Number Theory and Code Design for Rayleigh Fading Channels** Frédérique Oggier, Frederique Oggier, Emanuele Viterbo, 2004 Algebraic Number Theory and Code Design for Rayleigh Fading Channels provides an overview of algebraic lattice code designs for Rayleigh fading channels as well as a tutorial introduction to algebraic number theory [Group Theory, Algebra, and Number Theory](#) Horst G. Zimmer, 2011-07-20 No detailed description available for Group Theory Algebra and Number Theory [Finite Fields: Theory and Computation](#) Igor Shparlinski, 2013-03-09 This book is mainly devoted to some computational and algorithmic problems in finite fields such as for example polynomial factorization finding irreducible and primitive polynomials the distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other areas of mathematics For completeness we include two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number generators modular arithmetic etc and computational number theory primality testing

factoring integers computation in algebraic number theory etc The problems considered here have many applications in Computer Science Coding Theory Cryptography Numerical Methods and so on There are a few books devoted to more general questions but the results contained in this book have not till now been collected under one cover In the present work the author has attempted to point out new links among different areas of the theory of finite fields It contains many very important results which previously could be found only in widely scattered and hardly available conference proceedings and journals In particular we extensively review results which originally appeared only in Russian and are not well known to mathematicians outside the former USSR

Elementary and Analytic Theory of Algebraic Numbers Wladyslaw Narkiewicz, 2004-06-24 This book details the classical part of the theory of algebraic number theory excluding class field theory and its consequences Coverage includes ideal theory in rings of algebraic integers p adic fields and their finite extensions ideles and adèles zeta functions distribution of prime ideals Abelian fields the class number of quadratic fields and factorization problems The book also features exercises and a list of open problems

Algorithmic Number Theory Henri Cohen, 1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding

Riemann-Roch Spaces and Computation Paraskevas Alvanos, 2016-07-25 The book focuses on the educational perspective of Riemann Roch spaces and the computation of algebraic structures connected to the Riemann Roch theorem which is a useful tool in fields of complex analysis and algebraic geometry On one hand the theorem connects the Riemann surface with its topological genus and on the other it allows us to compute the algebraic function field spaces In the first part of this book algebraic structures and some of their properties are presented The second part shows efficient algorithms and examples connected to Riemann Roch spaces What is important a variety of examples with codes of algorithms are given in the book covering the majority of the cases

Algorithmic Number Theory, 1996 **Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae**, 1998 **Reviews in Number Theory, 1984-96**, 1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in Mathematical Reviews between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984

New Directions in Statistical Data Analysis and Robustness Stephan Morgenthaler, Elvezio Ronchetti, Werner Stahel, 1993 The book serves as an insightful and useful companion for students interested in research or scientists who want to learn about modern developments in the field of data analysis

Science and Health Mary Baker Eddy, 1991-04 First published in 1875 and

read by more than eight million people this nondenominational book has a 119 year history of healing and inspiration To attract a new audience this time honored message of healing has a powerful new cover easy to read page layout and word index Named one of 75 Books by Women Whose Words Have Changed the World *Mathematical Reviews* ,2001 □□□□□□ □□ ,1993 *Математический сборник* ,1999 **Subject Guide to Books in Print** ,2001 [Subject Guide to Children's Books in Print 1997](#) Bowker Editorial Staff,R R Bowker Publishing,1996-09 *The Cumulative Book Index* ,1995 A world list of books in the English language **Algorithmic Algebra and Number Theory** B.Heinrich Matzat,Gert-Martin Greuel,1999 This book contains 22 lectures presented at the final conference of the German research program Algorithmic Number Theory and Algebra 1991 1997 sponsored by the Deutsche Forschungsgemeinschaft The purpose of this research program and 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 results obtained during this period mainly in algebraic number theory commutative algebra and algebraic geometry and group and representation theory Some of the articles illustrate the current state of the computer algebra systems developed with support from the research program for example KANT and LiDIA for algebraic number theory SINGULAR REDLOG and INVAR for commutative algebra and invariant theory respectively and GAP SYSPHOS and CHEVIE for group and representation theory

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