Algebraic Number Fields
Second Edition

Gerald J. Janusz

Number Fields

Kalyan Chakraborty,Azizul Hoque,Prem Prakash Pandey

Number Fields:

The Theory of Algebraic Number Fields David Hilbert,2013-03-14 Constance Reid in Chapter VII of her book Hilbert tells the story of the writing of the Zahlbericht as his report entitled Die Theorie der algebra is chen Zahlkorper has always been known At its annual meeting in 1893 the Deutsche Mathematiker Vereinigung the German Mathematical Society invited Hilbert and Minkowski to prepare a report on the current state of affairs in the theory of numbers to be completed in two years The two mathematicians agreed that Minkowski should write about rational number theory and Hilbert about algebraic number theory Although Hilbert had almost completed his share of the report by the beginning of 1896 Minkowski had made much less progress and it was agreed that he should withdraw from his part of the project Shortly afterwards Hilbert finished writing his report on algebraic number fields and the manuscript carefully copied by his wife was sent to the printers The proofs were read by Minkowski aided in part by Hurwitz slowly and carefully with close attention to the mathematical exposition as well as to the type setting at Minkowski s insistence Hilbert included a note of thanks to his wife As Constance Reid writes The report on algebraic number fields exceeded in every way the expectation of the members of the Mathemati cal Society They had asked for a summary of the current state of affairs in the theory They received a masterpiece which simply and clearly fitted all the difficult developments of recent times into an elegantly integrated theory   **Number Fields** Frans Keune,2023-03-27 Number Fields is a textbook for algebraic number theory It grew out of lecture notes of master courses taught by the author at Radboud University the Netherlands over a period of more than four decades It is self contained in the sense that it uses only mathematics of a bachelor level including some Galois theory Part I of the book contains topics in basic algebraic number theory as they may be presented in a beginning master course on algebraic number theory It includes the classification of abelian number fields by groups of Dirichlet characters Class field theory is treated in Part II the more advanced theory of abelian extensions of number fields in general Full proofs of its main theorems are given using a classical approach to class field theory which is in a sense a natural continuation of the basic theory as presented in Part I The classification is formulated in terms of generalized Dirichlet characters This ideal theoretic version of class field theory dates from the first half of the twentieth century In this book it is described in modern mathematical language Another approach the id lic version uses topological algebra and group cohomology and originated halfway the last century The last two chapters provide the connection to this more advanced id lic version of class field theory The book focuses on the abstract theory and contains many examples and exercises For quadratic number fields algorithms are given for their class groups and in the real case for the fundamental unit New concepts are introduced at the moment it makes a real difference to have them available   **Number Fields** Daniel A. Marcus,2018-07-05 Requiring no more than a basic knowledge of abstract algebra this text presents the mathematics of number fields in a straightforward pedestrian manner It therefore avoids local methods and presents proofs in a way that highlights the important parts of the arguments Readers are

assumed to be able to fill in the details which in many places are left as exercises **The Genus Fields of Algebraic Number Fields** Makoto Ishida,1976-01-01 **The Genus Fields of Algebraic Number Fields** M. Ishida,2006-12-08 a **Class Groups of Number Fields and Related Topics** Kalyan Chakraborty,Azizul Hoque,Prem Prakash Pandey,2024-12-02 This book collects original research papers and survey articles presented at two conferences on the same theme the International Conference on Class Groups of Number Fields and Related Topics held at Kerala School of Mathematics Kozhikode Kerala India from 21 24 October 2021 and then from 21 24 November 2022 It presents the fundamental research problems that arise in the study of class groups of number fields and related areas The book also covers some new techniques and tools to study these problems Topics in this book include class groups of number fields units Ankeny Artin Chowla conjecture Iwasawa theory elliptic curves Diophantine equations partition functions Diophantine tuples congruent numbers Carmichael ideals in a number field and their connection with class groups This book will be a valuable resource for graduate students and researchers in mathematics interested in class groups of number fields and their connections to other branches of mathematics It also attracts new researchers to the field and young researchers will benefit immensely from the diverse problems discussed in this book All the contributing authors are leading academicians scientists and profound researchers This book is dedicated to Prof Michel Waldschmidt a renowned French number theorist on his 75th birthday On the Class Number of Abelian Number Fields Helmut Hasse,2019-04-23 With this translation the classic monograph ber die Klassenzahl abelscher Zahlk rper by Helmut Hasse is now available in English for the first time The book addresses three main topics class number formulas for abelian number fields expressions of the class number of real abelian number fields by the index of the subgroup generated by cyclotomic units and the Hasse unit index of imaginary abelian number fields the integrality of the relative class number formula and the class number parity Additionally the book includes reprints of works by Ken ichi Yoshino and Mikihito Hirabayashi which extend the tables of Hasse unit indices and the relative class numbers to imaginary abelian number fields with conductor up to 100 The text provides systematic and practical methods for deriving class number formulas determining the unit index and calculating the class number of abelian number fields A wealth of illustrative examples together with corrections and remarks on the original work make this translation a valuable resource for today s students of and researchers in number theory *Algebraic Number Fields* Gerald J. Janusz,1996 This text presents the basic information about finite dimensional extension fields of the rational numbers algebraic number fields and the rings of algebraic integers in them The important theorems regarding the units of the ring of integers and the class group are proved and illustrated with many examples given in detail The completion of an algebraic number field at a valuation is discussed in detail and then used to provide economical proofs of global results The book contains many concrete examples illustrating the computation of class groups class numbers and Hilbert class fields Exercises are provided to indicate applications of the general theory **Fourier Analysis on Number Fields** Dinakar

Ramakrishnan,Robert J. Valenza,2013-04-17 This book grew out of notes from several courses that the first author has taught over the past nine years at the California Institute of Technology and earlier at the Johns Hopkins University Cornell University the University of Chicago and the University of Crete Our general aim is to provide a modern approach to number theory through a blending of complementary algebraic and analytic perspectives emphasizing harmonic analysis on topological groups Our more particular goal is to cover Jolm Tate s visionary thesis giving virtually all of the necessary analytic details and topological preliminaries technical prereq uisites that are often foreign to the typical more algebraically inclined number theorist Most of the existing treatments of Tate s thesis including Tate s own range from terse to cryptic our intent is to be more leisurely more comprehen sive and more comprehensible To this end we have assembled material that has admittedly been treated elsewhere but not in a single volume with so much detail and not with our particular focus We address our text to students who have taken a year of graduate level courses in algebra analysis and topology While our choice of objects and methods is naturally guided by the specific mathematical goals of the text our approach is by no means narrow In fact the subject matter at hand is germane not only to budding number theorists but also to students of harmonic analysis or the representation theory of Lie groups **Jacobi Forms, Finite Quadratic Modules and Weil Representations over Number Fields** Hatice Boylan,2014-12-05 The new theory of Jacobi forms over totally real number fields introduced in this monograph is expected to give further insight into the arithmetic theory of Hilbert modular forms its L series and into elliptic curves over number fields This work is inspired by the classical theory of Jacobi forms over the rational numbers which is an indispensable tool in the arithmetic theory of elliptic modular forms elliptic curves and in many other disciplines in mathematics and physics Jacobi forms can be viewed as vector valued modular forms which take values in so called Weil representations Accordingly the first two chapters develop the theory of finite quadratic modules and associated Weil representations over number fields This part might also be interesting for those who are merely interested in the representation theory of Hilbert modular groups One of the main applications is the complete classification of Jacobi forms of singular weight over an arbitrary totally real number field **Cohomology of Number Fields** Jürgen Neukirch,Alexander Schmidt,Kay Wingberg,2013-09-26 This second edition is a corrected and extended version of the first It is a textbook for students as well as a reference book for the working mathematician on cohomological topics in number theory In all it is a virtually complete treatment of a vast array of central topics in algebraic number theory New material is introduced here on duality theorems for unramified and tamely ramified extensions as well as a careful analysis of 2 extensions of real number fields *Foundations of Analysis over Surreal Number Fields* N.L. Alling,1987-04-01 In this volume a tower of surreal number fields is defined each being a real closed field having a canonical formal power series structure and many other higher order properties Formal versions of such theorems as the Implicit Function Theorem hold over such fields The Main Theorem states that every formal power series in a finite number of variables over a surreal field

has a positive radius of hyper convergence within which it may be evaluated Analytic functions of several surreal and surcomplex variables can then be defined and studied Some first results in the one variable case are derived A primer on Conway s field of surreal numbers is also given Throughout the manuscript great efforts have been made to make the volume fairly self contained Much exposition is given Many references are cited While experts may want to turn quickly to new results students should be able to find the explanation of many elementary points of interest On the other hand many new results are given and much mathematics is brought to bear on the problems at hand *Asymptotics of Cubic Number Fields with Bounded Second Successive Minimum of the Trace Form* Gero Brockschnieder,2018-06-26 We present a new way of investigating totally real algebraic number fields of degree 3 Instead of making tables of number fields with restrictions only on the field discriminant and or the signature as described by Pohst Martinet Diaz y Diaz Cohen and other authors we bound not only the field discriminant and the signature but also the second successive minima of the trace form on the ring of integers O K of totally real cubic fields K With this we eventually obtain an asymptotic behaviour of the size of the set of fields which fulfill the given requirements This asymptotical behaviour is only subject to the bound X for the second successive minima namely the set in question will turn out to be of the size O X 5 2 We introduce the necessary notions and definitions from algebraic number theory more precisely from the theory of number fields and from class field theory as well as some analytical concepts such as Riemann and Dedekind zeta functions which play a role in some of the computations From the boundedness of the second successive minima of the trace form of fields we derive bounds for the coefficients of the polynomials which define those fields hence obtaining a finite set of such polynomials We work out an elaborate method of counting the polynomials in this set and we show that errors that arise with this procedure are not of important order We parametrise the polynomials so that we have the possibility to apply further concepts beginning with the notion of minimality of the parametrization of a polynomial Considerations about the consequences of allowing only minimal pairs B C as parametrization of a polynomial f t t 3 at 2 bt c to be of interest as well as a bound for the number of Galois fields among all fields in question and their importance in the procedure of counting minimal pairs polynomials and fields finally lead to the proof that the number of fields K with second successive minimum M2 K **Analytic Arithmetic in Algebraic Number Fields** Baruch Z. Moroz,2006-11-14 Number Theory in Function Fields Michael Rosen,2013-04-18 Elementary number theory is concerned with the arithmetic properties of the ring of integers Z and its field of fractions the rational numbers Q Early on in the development of the subject it was noticed that Z has many properties in common with A IF T the ring of polynomials over a finite field Both rings are principal ideal domains both have the property that the residue class ring of any non zero ideal is finite both rings have infinitely many prime elements and both rings have finitely many units Thus one is led to suspect that many results which hold for Z have analogues of the ring A This is indeed the case The first four chapters of this book are devoted to illustrating this by presenting for example analogues of the little theorems of Fermat and Euler

Wilson s theorem quadratic and higher reciprocity the prime number theorem and Dirichlet s theorem on primes in an arithmetic progression All these results have been known for a long time but it is hard to locate any exposition of them outside of the original papers Algebraic number theory arises from elementary number theory by con sidering finite algebraic extensions K of Q which are called algebraic num ber fields and investigating properties of the ring of algebraic integers OK C K defined as the integral closure of Z in K   **A Survey Of Trace Forms Of Algebraic Number Fields** P E Conner,Robert V Perlis,1984-07-01 Every finite separable field extension F K carries a canonical inner product given by trace xy This symmetric K bilinear form is the trace form of F K When F is an algebraic number field and K is the field Q of rational numbers the trace form goes back at least 100 years to Hermite and Sylvester These notes present the first systematic treatment of the trace form as an object in its own right Chapter I discusses the trace form of F Q up to Witt equivalence in the Witt ring W Q Special attention is paid to the Witt classes arising from normal extensions F Q Chapter II contains a detailed analysis of trace forms over p adic fields These local results are applied in Chapter III to prove that a Witt class X in W Q is represented by the trace form of an extension F Q if and only if X has non negative signature Chapter IV discusses integral trace forms obtained by restricting the trace form of F Q to the ring of algebraic integers in F When F Q is normal the Galois group acts as a group of isometries of the integral trace form It is proved that when F Q is normal of prime degree the integral form is determined up to equivariant integral equivalence by the discriminant of F alone Chapter V discusses the equivariant Witt theory of trace forms of normal extensions F Q and Chapter VI relates the trace form of F Q to questions of ramification in F These notes were written in an effort to identify central problems There are many open problems listed in the text An introduction to Witt theory is included and illustrative examples are discussed throughout   Algebraic Number Fields Janusz,1995-12-05 The book is directed toward students with a minimal background who want to learn class field theory for number fields The only prerequisite for reading it is some elementary Galois theory The first three chapters lay out the necessary background in number fields such as the arithmetic of fields Dedekind domains and valuations The next two chapters discuss class field theory for number fields The concluding chapter serves as an illustration of the concepts introduced in previous chapters In particular some interesting calculations with quadratic fields show the use of the norm residue symbol For the second edition the author added some new material expanded many proofs and corrected errors found in the first edition The main objective however remains the same as it was for the first edition to give an exposition of the introductory material and the main theorems about class fields of algebraic number fields that would require as little background preparation as possible Janusz s book can be an excellent textbook for a year long course in algebraic number theory the first three chapters would be suitable for a one semester course It is also very suitable for independent study
Quadratic Number Fields Franz Lemmermeyer,2021-09-18 This undergraduate textbook provides an elegant introduction to the arithmetic of quadratic number fields including many topics not usually covered in books at this level Quadratic fields

offer an introduction to algebraic number theory and some of its central objects rings of integers the unit group ideals and the ideal class group This textbook provides solid grounding for further study by placing the subject within the greater context of modern algebraic number theory Going beyond what is usually covered at this level the book introduces the notion of modularity in the context of quadratic reciprocity explores the close links between number theory and geometry via Pell conics and presents applications to Diophantine equations such as the Fermat and Catalan equations as well as elliptic curves Throughout the book contains extensive historical comments numerous exercises with solutions and pointers to further study Assuming a moderate background in elementary number theory and abstract algebra Quadratic Number Fields offers an engaging first course in algebraic number theory suitable for upper undergraduate students **Number Fields and Function Fields – Two Parallel Worlds** Gerard van der Geer,B.J.J Moonen,René Schoof,2005-09-14 Invited articles by leading researchers explore various aspects of the parallel worlds of function fields and number fields Topics range from Arakelov geometry the search for a theory of varieties over the field with one element via Eisenstein series to Drinfeld modules and t motives Aimed at graduate students mathematicians and researchers interested in geometry and arithmetic and their connections *Cohomology of Number Fields* Jürgen Neukirch,Alexander Schmidt,Kay Wingberg,1999-12-08 Galois modules over local and global fields form the main subject of this monograph which can serve both as a textbook for students and as a reference book for the working mathematician on cohomological topics in number theory The first part provides necessary algebraic background profinite groups and their cohomology duality groups free products modules over complete group rings and their homotopy theory The arithmetic part deals with Galois groups of local and global fields local Tate duality the structure of the absolute Galois group of a local field extensions of global fields with restricted ramification cohomology of the id le and the id le class groups Poitou Tate duality for finitely generated Galois modules the Hasse principle the theorem of Grunwald Wang Leopoldt s conjecture Riemann s existence theorem for number fields embedding problems the theorems of Iwasawa and of Safarevic on solvable groups as Galois groups over global fields Iwasawa theory of local and global number fields and the characterization of number fields by their absolute Galois groups

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