

# **Algebraic Groups and Number Theory**

**Volume I**  
**Second Edition**

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# Algebraic Number Theory Cambridge Studies In Advanced Mathematics

**Jennifer S. Balakrishnan, Noam Elkies, Brendan Hassett, Bjorn Poonen, Andrew V. Sutherland, John Voight**

## **Algebraic Number Theory Cambridge Studies In Advanced Mathematics:**

**Algebraic Number Theory** A. Fröhlich, Martin J. Taylor, 1991 This book originates from graduate courses given in Cambridge and London. It provides a brisk, thorough treatment of the foundations of algebraic number theory and builds on that to introduce more advanced ideas. Throughout the authors emphasise the systematic development of techniques for the explicit calculation of the basic invariants such as rings of integers, class groups and units. Moreover, they combine at each stage of development theory with explicit computations and applications and provide motivation in terms of classical number theoretic problems. A number of special topics are included that can be treated at this level but can usually only be found in research monographs or original papers, for instance module theory of Dedekind domains, tame and wild ramifications, Gauss series and Gauss periods, binary quadratic forms and Brauer relations. This is the only textbook at this level which combines clean modern algebraic techniques together with a substantial arithmetic content. It will be indispensable for all practising and would-be algebraic number theorists.

[Algebraic Number Theory and Fermat's Last Theorem](#) Ian Stewart, David Tall, 2025-02-07 Updated to reflect current research and extended to cover more advanced topics as well as the basics. Algebraic Number Theory and Fermat's Last Theorem, Fifth Edition introduces fundamental ideas of algebraic numbers and explores one of the most intriguing stories in the history of mathematics: the quest for a proof of Fermat's Last Theorem. The authors use this celebrated theorem to motivate a general study of the theory of algebraic numbers, initially from a relatively concrete point of view. Students will see how Wiles's proof of Fermat's Last Theorem opened many new areas for future work. New to the Fifth Edition: Pell's Equation  $x^2 dy^2 = 1$ ; all solutions can be obtained from a single fundamental solution which can be found using continued fractions; Galois theory of number field extensions relating the field structure to that of the group of automorphisms; More material on cyclotomic fields and some results on cubic fields; Advanced properties of prime ideals, including the valuation of a fractional ideal relative to a prime ideal; localisation at a prime ideal; and discrete valuation rings. Ramification theory, which discusses how a prime ideal factorises when the number field is extended to a larger one. A short proof of the Quadratic Reciprocity Law based on properties of cyclotomic fields. This Valuations and  $p$ -adic numbers; Topology of the  $p$ -adic integers. Written by preeminent mathematicians Ian Stewart and David Tall, this text continues to teach students how to extend properties of natural numbers to more general number structures, including algebraic number fields and their rings of algebraic integers. It also explains how basic notions from the theory of algebraic numbers can be used to solve problems in number theory.

[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 commutati

[Geometry, Algebra, Number Theory, and Their Information Technology Applications](#) Amir

Akbary, Sanoli Gun, 2018-09-18 This volume contains proceedings of two conferences held in Toronto Canada and Kozhikode India in 2016 in honor of the 60th birthday of Professor Kumar Murty. The meetings were focused on several aspects of number theory: The theory of automorphic forms and their associated L functions, Arithmetic geometry with special emphasis on algebraic cycles, Shimura varieties and explicit methods in the theory of abelian varieties. The emerging applications of number theory in information technology. Kumar Murty has been a substantial influence in these topics and the two conferences were aimed at honoring his many contributions to number theory, arithmetic geometry and information technology.

*Arithmetic Geometry, Number Theory, and Computation* Jennifer S. Balakrishnan, Noam Elkies, Brendan Hassett, Bjorn Poonen, Andrew V. Sutherland, John Voight, 2022-03-15 This volume contains articles related to the work of the Simons Collaboration Arithmetic Geometry Number Theory and Computation. The papers present mathematical results and algorithms necessary for the development of large scale databases like the L functions and Modular Forms Database LMFDB. The authors aim to develop systematic tools for analyzing Diophantine properties of curves, surfaces and abelian varieties over number fields and finite fields. The articles also explore examples important for future research. Specific topics include algebraic varieties over finite fields, the Chabauty Coleman method, modular forms, rational points on curves of small genus, S-unit equations and integral points.

**Quadratic Algebras, Clifford Algebras, and Arithmetic Witt Groups** Alexander J. Hahn, 2012-12-06 Quadratic Algebras Clifford Algebras and Arithmetic Forms introduces mathematicians to the large and dynamic area of algebras and forms over commutative rings. The book begins very elementary and progresses gradually in its degree of difficulty. Topics include the connection between quadratic algebras, Clifford algebras and quadratic forms, Brauer groups, the matrix theory of Clifford algebras over fields, Witt groups of quadratic and symmetric bilinear forms. Some of the new results included by the author concern the representation of Clifford algebras, the structure of Arf algebra in the free case, connections between the group of isomorphic classes of finitely generated projectives of rank one and arithmetic results about the quadratic Witt group.

**Official Gazette** Philippines, 2011 **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 idelic

version uses topological algebra and group cohomology and originated halfway the last century The last two chapters provide the connection to this more advanced and refined 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

**Algebraic Number Theory** Albrecht Frohlich, M. J. Taylor, 1991 [Class Groups of Number Fields and Related Topics](#)  
Kalyan Chakraborty, Azizul Hoque, Prem Prakash Pandey, 2020-01-17 This book gathers original research papers and survey articles presented at the International Conference on Class Groups of Number Fields and Related Topics held at Harish Chandra Research Institute Allahabad India on September 4-7 2017 It discusses the fundamental research problems that arise in the study of class groups of number fields and introduces new techniques and tools to study these problems Topics in this book include class groups and class numbers of number fields units the Kummer Vandiver conjecture class number one problem Diophantine equations Thue equations continued fractions Euclidean number fields heights rational torsion points on elliptic curves cyclotomic numbers Jacobi sums and Dedekind zeta values This book is a valuable resource for undergraduate and graduate students of mathematics as well as researchers interested in class groups of number fields and their connections to other branches of mathematics New researchers to the field will also benefit immensely from the diverse problems discussed All the contributing authors are leading academicians scientists researchers and scholars

**Primes of the Form  $x^2+ny^2$  : Fermat, Class Field Theory, and Complex Multiplication. Third Edition with Solutions** David A. Cox, 2022-11-16 This book studies when a prime  $p$  can be written in the form  $x^2+ny^2$  It begins at an elementary level with results of Fermat and Euler and then discusses the work of Lagrange Legendre and Gauss on quadratic reciprocity and the genus theory of quadratic forms After exploring cubic and biquadratic reciprocity the pace quickens with the introduction of algebraic number fields and class field theory This leads to the concept of ring class field and a complete but abstract solution of  $p \equiv x^2+ny^2$  To make things more concrete the book introduces complex multiplication and modular functions to give a constructive solution The book ends with a discussion of elliptic curves and Shimura reciprocity Along the way the reader will encounter some compelling history and marvelous formulas together with a complete solution of the class number one problem for imaginary quadratic fields The book is accessible to readers with modest backgrounds in number theory In the third edition the numerous exercises have been thoroughly checked and revised and as a special feature complete solutions are included This makes the book especially attractive to readers who want to get an active knowledge of this wonderful part of mathematics

[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 INVARIANT for commutative algebra and invariant theory respectively and GAP SYSYPHOS and CHEVIE for group and representation theory *Introductory Lectures on Siegel Modular Forms* Helmut Klingen, 1990-02-23 From their inception Siegel modular forms have been studied extensively because of their significance in both automorphic functions in several complex variables and number theory The comprehensive theory of automorphic forms to subgroups of algebraic groups and the arithmetical theory of modular forms illustrate these two aspects in an illuminating manner The author's aim is to present a straightforward and easily accessible survey of the main ideas of the theory at an elementary level providing a sound basis from which the reader can study advanced works and undertake original research This book is based on lectures given by the author for a number of years and is intended for a one semester graduate course though it can also be used profitably for self study The only prerequisites are a basic knowledge of algebra number theory and complex analysis **Multiplicative Number Theory I** Hugh L. Montgomery, Robert C. Vaughan, 2007 A 2006 text based on courses taught successfully over many years at Michigan Imperial College and Pennsylvania State Linear Independence of Logarithms of Algebraic Numbers Michel Waldschmidt, 1996 **Simon Stevin**, 1992 Journal of Mathematical Sciences, the University of Tokyo, 2003 **Annales Scientifiques de L'École Normale Supérieure** École normale supérieure (France), 2011 IMSc Report, 1995 **The American Mathematical Monthly**, 2009

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