

Number Theory

Algebraic Numbers and Functions

Helmut Koch

**Graduate Studies
in Mathematics**

Volume 24



American Mathematical Society

Number Theory Algebraic Numbers And Functions

Serge Lang



Number Theory Algebraic Numbers And Functions:

Number Theory Helmut Koch, 2000 Algebraic number theory is one of the most refined creations in mathematics. It has been developed by some of the leading mathematicians of this and previous centuries. The primary goal of this book is to present the essential elements of algebraic number theory including the theory of normal extensions up through a glimpse of class field theory. Following the example set for us by Kronecker, Weber, Hilbert, and Artin, algebraic functions are handled here on an equal footing with algebraic numbers. This is done on the one hand to demonstrate the analogy between number fields and function fields, which is especially clear in the case where the ground field is a finite field. On the other hand, in this way one obtains an introduction to the theory of higher congruences as an important element of arithmetic geometry. Early chapters discuss topics in elementary number theory such as Minkowski's geometry of numbers, public key cryptography, and a short proof of the Prime Number Theorem following Newman and Zagier. Next, some of the tools of algebraic number theory are introduced, such as ideals, discriminants, and valuations. These results are then applied to obtain results about function fields, including a proof of the Riemann-Roch Theorem and, as an application of cyclotomic fields, a proof of the first case of Fermat's Last Theorem. There is a detailed exposition of the theory of Hecke L-series following Tate and explicit applications to number theory such as the Generalized Riemann Hypothesis. Chapter 9 brings together the earlier material through the study of quadratic number fields. Finally, Chapter 10 gives an introduction to class field theory. The book attempts as much as possible to give simple proofs. It can be used by a beginner in algebraic number theory who wishes to see some of the true power and depth of the subject. The book is suitable for two one-semester courses, with the first four chapters serving to develop the basic material. Chapters 6 through 9 could be used on their own as a second semester course. Algebraic Number Theory H. Koch, Helmut Koch, 1997-09-12 From the reviews of the first printing published as Volume 62 of the Encyclopaedia of Mathematical Sciences: The author succeeded in an excellent way to describe the various points of view under which Class Field Theory can be seen. In any case, the author succeeded to write a very readable book on these difficult themes. Monatshefte fuer Mathematik 1994 Koch's book is written mostly for non-specialists. It is an up-to-date account of the subject dealing with mostly general questions. Special results appear only as illustrating examples for the general features of the theory. It is supposed that the reader has good general background in the fields of modern abstract algebra and elementary number theory. We recommend this volume mainly to graduate students and research mathematicians. Acta Scientiarum Mathematicarum 1993 **Algebraic Numbers and Algebraic Functions** P.M. Cohn, 2018-01-18 This book is an introduction to the theory of algebraic numbers and algebraic functions of one variable. The basic development is the same for both using E. Artin's elegant approach via valuations. Number Theory is pursued as far as the unit theorem and the finiteness of the class number. In function theory the aim is the Abel-Jacobi theorem describing the divisor class group with occasional geometrical asides to help understanding. Assuming only an undergraduate course in algebra plus a little

acquaintance with topology and complex function theory the book serves as an introduction to more technical works in algebraic number theory function theory or algebraic geometry by an exposition of the central themes in the subject

Introduction to the Theory of Algebraic Numbers and Functions Martin Eichler, 1966 This book serves to introduce the general notions the concepts and the methods which underlie the theories of algebraic numbers and algebraic functions primarily in one variable It also introduces the theory of elliptic modular functions which has deep applications in analytic number theory

An Invitation To Algebraic Numbers And Algebraic Functions Franz Halter-Koch, 2020-05-04 The author offers a thorough presentation of the classical theory of algebraic numbers and algebraic functions which both in its conception and in many details differs from the current literature on the subject The basic features are Field theoretic preliminaries and a detailed presentation of Dedekind's ideal theory including non principal orders and various types of class groups the classical theory of algebraic number fields with a focus on quadratic cubic and cyclotomic fields basics of the analytic theory including the prime ideal theorem density results and the determination of the arithmetic by the class group a thorough presentation of valuation theory including the theory of difference discriminants and higher ramification The theory of function fields is based on the ideal and valuation theory developed before it presents the Riemann-Roch theorem on the basis of Weil differentials and highlights in detail the connection with classical differentials The theory of congruence zeta functions and a proof of the Hasse-Weil theorem represent the culminating point of the volume The volume is accessible with a basic knowledge in algebra and elementary number theory It empowers the reader to follow the advanced number theoretic literature and is a solid basis for the study of the forthcoming volume on the foundations and main results of class field theory

Key features A thorough presentation of the theory of Algebraic Numbers and Algebraic Functions on an ideal and valuation theoretic basis Several of the topics both in the number field and in the function field case were not presented before in this context Despite presenting many advanced topics the text is easily readable Franz Halter-Koch is professor emeritus at the university of Graz He is the author of *Ideal Systems* Marcel Dekker 1998 *Quadratic Irrationals* CRC 2013 and a co author of *Non Unique Factorizations* CRC 2006

Elementary and Analytic Theory of Algebraic Numbers Wladyslaw Narkiewicz, 2013-06-29 The aim of this book is to present an exposition of the theory of algebraic numbers excluding class field theory and its consequences There are many ways to develop this subject the latest trend is to neglect the classical Dedekind theory of ideals in favour of local methods However for numerical computations necessary for applications of algebraic numbers to other areas of number theory the old approach seems more suitable although its exposition is obviously longer On the other hand the local approach is more powerful for analytical purposes as demonstrated in Tate's thesis Thus the author has tried to reconcile the two approaches presenting a self contained exposition of the classical standpoint in the first four chapters and then turning to local methods In the first chapter we present the necessary tools from the theory of Dedekind domains and valuation theory including the structure of finitely generated modules over

Dedekind domains In Chapters 2 3 and 4 the classical theory of algebraic numbers is developed Chapter 5 contains the fundamental notions of the theory of p -adic fields and Chapter 6 brings their applications to the study of algebraic number fields We include here Shafarevich's proof of the Kronecker Weber theorem and also the main properties of adèles and idèles

Algebraic Numbers and Algebraic Functions Emil Artin, 2005 Originated from the notes of a course given at Princeton University in 1950 1951 this text offers an introduction to algebraic numbers and algebraic functions It starts with the general theory of valuation fields proceeds to the local class field theory and then to the theory of function fields in one variable

Transcendental Number Theory Alan Baker, 2022-06-09 First published in 1975 this classic book gives a systematic account of transcendental number theory that is the theory of those numbers that cannot be expressed as the roots of algebraic equations having rational coefficients Their study has developed into a fertile and extensive theory which continues to see rapid progress today Expositions are presented of theories relating to linear forms in the logarithms of algebraic numbers of Schmidt's generalization of the Thue Siegel Roth theorem of Shidlovsky's work on Siegel's E functions and of Sprinduk's solution to the Mahler conjecture This edition includes an introduction written by David Masser describing Baker's achievement surveying the content of each chapter and explaining the main argument of Baker's method in broad strokes A new afterword lists recent developments related to Baker's work

The Story of Algebraic Numbers in the First Half of the 20th Century Władysław Narkiewicz, 2019-01-18 The book is aimed at people working in number theory or at least interested in this part of mathematics It presents the development of the theory of algebraic numbers up to the year 1950 and contains a rather complete bibliography of that period The reader will get information about results obtained before 1950 It is hoped that this may be helpful in preventing rediscoveries of old results and might also inspire the reader to look at the work done earlier which may hide some ideas which could be applied in contemporary research

Algebraic Number Theory Jürgen Neukirch, 2013-03-14 From the review The present book has as its aim to resolve a discrepancy in the textbook literature and to provide a comprehensive introduction to algebraic number theory which is largely based on the modern unifying conception of one dimensional arithmetic algebraic geometry Despite this exacting program the book remains an introduction to algebraic number theory for the beginner The author discusses the classical concepts from the viewpoint of Arakelov theory The treatment of class field theory is particularly rich in illustrating complements hints for further study and concrete examples The concluding chapter VII on zeta functions and L series is another outstanding advantage of the present textbook The book is without any doubt the most up to date systematic and theoretically comprehensive textbook on algebraic number field theory available W Kleinert in Zentralblatt für Mathematik 1992

Introduction to the Theory of Algebraic Numbers and Functions, 1966-01-01 Introduction to the Theory of Algebraic Numbers and Functions *Algebraic Numbers and Algebraic Functions I.* Emil Artin, 1951 *Class Field Theory and L Functions* Franz Halter-Koch, 2022-03-13 The book contains the main results of class field theory and Artin L functions both

for number fields and function fields together with the necessary foundations concerning topological groups cohomology and simple algebras While the first three chapters presuppose only basic algebraic and topological knowledge the rest of the books assumes knowledge of the basic theory of algebraic numbers and algebraic functions such as those contained in my previous book *An Invitation to Algebraic Numbers and Algebraic Functions* CRC Press 2020 The main features of the book are A detailed study of Pontrjagin's duality theorem A thorough presentation of the cohomology of profinite groups A introduction to simple algebras An extensive discussion of the various ray class groups both in the divisor theoretic and the idelic language The presentation of local and global class field theory in the algebra theoretic concept of H Hasse The study of holomorphy domains and their relevance for class field theory Simple classical proofs of the functional equation for L functions both for number fields and function fields A self contained presentation of the theorems of representation theory needed for Artin L functions Application of Artin L functions for arithmetical results

An Invitation to Modern Number Theory Steven J. Miller, Ramin Takloo-Bighash, 2006-03-26 PART 1 BASIC NUMBER THEORY 1 Mod p Arithmetic Group Theory and Cryptography 2 Arithmetic Functions 3 Zeta and L Functions 4 Solutions to Diophantine Equations PART 2 CONTINUED FRACTIONS AND APPROXIMATIONS 5 Algebraic and Transcendental Numbers 6 The Proof of Roth's Theorem 7 Introduction to Continued Fractions PART 3 PROBABILISTIC METHODS AND EQUIDISTRIBUTION 8 Introduction to Probability 9 Applications of Probability Benford's Law and Hypothesis Testing 10 Distribution of Digits of Continued Fractions 11 Introduction to Fourier Analysis 12 f_n and Poissonian Behavior PART 4 THE CIRCLE METHOD 13 Introduction to the Circle Method 14 Circle Method Heuristics for Germain Primes PART 5 RANDOM MATRIX THEORY AND L FUNCTIONS 15 From Nuclear Physics to L Functions 16 Random Matrix Theory Eigenvalue Densities 17 Random Matrix Theory Spacings between Adjacent Eigenvalues 18 The Explicit Formula and Density Conjectures Appendix A Analysis Review Appendix B Linear Algebra Review Appendix C Hints and Remarks on the Exercises Appendix D Concluding Remarks

Algebraic Numbers and Algebraic Functions I Emil Artin, 1951 ***Algebraic Number Theory*** Serge Lang, 2013-06-29

The present book gives an exposition of the classical basic algebraic and analytic number theory and supersedes my *Algebraic Numbers* including much more material e.g. the class field theory on which I make further comments at the appropriate place later For different points of view the reader is encouraged to read the collection of papers from the Brighton Symposium edited by Cassels-Frohlich the Artin-Tate notes on class field theory Weil's book on Basic Number Theory Borevich-Shafarevich's Number Theory and also older books like those of Weber Hasse Hecke and Hilbert's *Zahlbericht* It seems that over the years everything that has been done has proved useful theoretically or as examples for the further development of the theory Old and seemingly isolated special cases have continuously acquired renewed significance often after half a century or more The point of view taken here is principally global and we deal with local fields only incidentally For a more complete treatment of these cf. Serre's book *Corps Locaux* There is much to be said for a direct global

approach to number fields Stylistically 1 have intermingled the ideal and idelic approaches without prejudice for either 1 also include two proofs of the functional equation for the zeta function to acquaint the reader with different techniques in some sense equivalent but in another sense suggestive of very different moods *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 *Transcendental and Algebraic Numbers* A. O. Gelfond,2015-01-05 Primarily an advanced study of the modern theory of transcendental and algebraic numbers this treatment by a distinguished Soviet mathematician focuses on the theory's fundamental methods The text also chronicles the historical development of the theory's methods and explores the connections with other problems in number theory The problem of approximating algebraic numbers is also studied as a case in the theory of transcendental numbers Topics include the Thue Siegel theorem the Hermite Lindemann theorem on the transcendency of the exponential function and the work of C Siegel on the transcendency of the Bessel functions and of the solutions of other differential equations The final chapter considers the Gelfond Schneider theorem on the transcendency of α to the power β Each proof is prefaced by a brief discussion of its scheme which provides a helpful guide to understanding the proof's progression *Certain Number-Theoretic Episodes In Algebra, Second Edition* R Sivaramakrishnan,2019-03-19 The book attempts to point out the interconnections between number theory and algebra with a view to making a student understand certain basic concepts in the two areas forming the subject matter of the book **Algebraic Number Theory** Ian Stewart,David Orme Tall,1987-05-07

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