

David Masser

Elliptic Functions and Transcendence

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Krishnaswami Alladi



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Elliptic Functions and Transcendence D.W. Masser, 2006-11-15 **Geometric Topology**, 1975 Elliptic functions and transcendence David Masser, 1975 **Transcendence Theory, Advances and Applications** Alan Baker, A. Baker, David William Masser, 1977 This volume is an account of the proceedings of a conference on transcendence theory and its applications held in the University of Cambridge during January and February 1976 The sixteen papers reflect the considerable current activity in this area and establish a wide variety of original results The papers have been arranged in groups with a common themes such as the theory of linear forms in the logarithms of algebraic numbers and its applications the transcendence theory of elliptic and Abelian functions and linear and algebraic independence of meromorphic functions and arithmetical properties of polynomials in several variables Periods And Special Functions In Transcendence Paula B Tretkoff, 2017-05-04 The book is mainly addressed to the non expert reader in that it assumes only a little background in complex analysis and algebraic geometry but no previous knowledge in transcendental number theory is required The technical language is introduced smoothly and illustrative examples are provided where appropriate The book is carefully written and the relevant literature is provided in the list of references Mathematical Reviews Clippings This book gives an introduction to some central results in transcendental number theory with application to periods and special values of modular and hypergeometric functions It also includes related results on Calabi Yau manifolds Most of the material is based on the author's own research and appears for the first time in book form It is presented with minimal of technical language and no background in number theory is needed In addition except the last chapter all chapters include exercises suitable for graduate students It is a nice book for graduate students and researchers interested in transcendence Surveys in Number Theory Krishnaswami Alladi, 2009-03-02 Number theory has a wealth of long standing problems the study of which over the years has led to major developments in many areas of mathematics This volume consists of seven significant chapters on number theory and related topics Written by distinguished mathematicians key topics focus on multipartitions congruences and identities G Andrews the formulas of Koshliakov and Guinand in Ramanujan's Lost Notebook B C Berndt Y Lee and J Sohn alternating sign matrices and the Weyl character formulas D M Bressoud theta functions in complex analysis H M Farkas representation functions in additive number theory M B Nathanson and mock theta functions ranks and Maass forms K Ono and elliptic functions M Waldschmidt All of the surveys were outgrowths of featured talks given during the Special Year in Number Theory and Combinatorics at the University of Florida Gainesville 2004 2005 and describe major progress on a broad range of topics This volume is intended for mathematicians and graduate students interested in number theory and related areas Introduction to Algebraic Independence Theory Yuri V. Nesterenko, Patrice Philippon, 2003-07-01 In the last five years there has been very significant progress in the development of transcendence theory A new approach to the arithmetic properties of values of modular forms and theta functions was found The solution of the Mahler Manin

problem on values of modular function $j(\tau)$ and algebraic independence of numbers π and e^π are most impressive results of this breakthrough. The book presents these and other results on algebraic independence of numbers and further a detailed exposition of methods created in last the 25 years during which commutative algebra and algebraic geometry exerted strong catalytic influence on the development of the subject.

Contributions to the Theory of Transcendental Numbers Gregory Chudnovsky, 1984. Contains a collection of papers devoted primarily to transcendental number theory and diophantine approximations. This title includes a text of the author's invited address on his work on the theory of transcendental numbers to the 1978 International Congress of Mathematicians in Helsinki.

Transcendental Number Theory Alan Baker, 1990-09-28. First published in 1975 this classic book gives a systematic account of transcendental number theory that is those numbers which cannot be expressed as the roots of algebraic equations having rational coefficients. Their study has developed into a fertile and extensive theory enriching many branches of pure mathematics. Expositions are presented of theories relating to linear forms in the logarithms of algebraic numbers of Schmidt's generalisation of the Thue Siegel Roth theorem of Shidlovsky's work on Siegel's E functions and of Sprindzuk's solution to the Mahler conjecture. The volume was revised in 1979 however Professor Baker has taken this further opportunity to update the book including new advances in the theory and many new references.

Auxiliary Polynomials in Number Theory David Masser, 2016-07-21. This unified account of various aspects of a powerful classical method easy to understand in its simplest forms is illustrated by applications in several areas of number theory. As well as including diophantine approximation and transcendence which were mainly responsible for its invention the author places the method in a broader context by exploring its application in other areas such as exponential sums and counting problems in both finite fields and the field of rationals. Throughout the book the method is explained in a molecular fashion where key ideas are introduced independently. Each application is the most elementary significant example of its kind and appears with detailed references to subsequent developments making it accessible to advanced undergraduates as well as postgraduate students in number theory or related areas. It provides over 700 exercises both guiding and challenging while the broad array of applications should interest professionals in fields from number theory to algebraic geometry.

Diophantine Approximation Wolfgang M. Schmidt, 1970.

Rational Number Theory in the 20th Century Władysław Narkiewicz, 2011-09-02. The last one hundred years have seen many important achievements in the classical part of number theory. After the proof of the Prime Number Theorem in 1896 a quick development of analytical tools led to the invention of various new methods like Brun's sieve method and the circle method of Hardy Littlewood and Ramanujan developments in topics such as prime and additive number theory and the solution of Fermat's problem. Rational Number Theory in the 20th Century From PNT to FLT offers a short survey of 20th century developments in classical number theory documenting between the proof of the Prime Number Theorem and the proof of Fermat's Last Theorem. The focus lays upon the part of number theory that deals with properties of integers and rational

numbers Chapters are divided into five time periods which are then further divided into subject areas With the introduction of each new topic developments are followed through to the present day This book will appeal to graduate researchers and student in number theory however the presentation of main results without technicalities will make this accessible to anyone with an interest in the area

Diophantine Approximation David Masser, Yuri V. Nesterenko, Hans Peter Schlickewei, Wolfgang M. Schmidt, Michel Waldschmidt, 2008-02-01 Diophantine Approximation is a branch of Number Theory having its origins in the problem of producing best rational approximations to given real numbers Since the early work of Lagrange on Pell's equation and the pioneering work of Thue on the rational approximations to algebraic numbers of degree 3 it has been clear how in addition to its own specific importance and interest the theory can have fundamental applications to classical diophantine problems in Number Theory During the whole 20th century until very recent times this fruitful interplay went much further also involving Transcendental Number Theory and leading to the solution of several central conjectures on diophantine equations and class number and to other important achievements These developments naturally raised further intensive research so at the moment the subject is a most lively one This motivated our proposal for a C I M E session with the aim to make it available to a public wider than specialists an overview of the subject with special emphasis on modern advances and techniques Our project was kindly supported by the C I M E Committee and met with the interest of a large number of applicants forty two participants from several countries both graduate students and senior mathematicians intensively followed courses and seminars in a friendly and co-operative atmosphere The main part of the session was arranged in four six hours courses by Professors D Masser Basel H P Schlickewei Marburg W M Schmidt Boulder and M Waldschmidt Paris VI This volume contains expanded notes by the authors of the four courses together with a paper by Professor Yu V

Number Theory Kalman Györy, Attila Pethő, Vera T. Sos, 2011-06-24 No detailed description available for Number Theory

Number Theory IV A.N. Parshin, I.R. Shafarevich, 2013-03-09 This book was written over a period of more than six years Several months after we finished our work N 1 Feldman the senior author of the book died All additions and corrections entered after his death were made by his coauthor The assistance of many of our colleagues was invaluable during the writing of the book They examined parts of the manuscript and suggested many improvements made useful comments and corrected many errors I much have pleasure in acknowledging our great indebtedness to them Special thanks are due to A B Shidlovskii V G Chirskii A I Galochkin and O N Vasilenko I would like to express my gratitude to D Bertrand and J Wolfart for their help in the final stages of this book Finally I wish to thank Neal Koblitz for having translated this text into English August 1997 Yu V Nesterenko Transcendental Numbers N 1 Feldman and Yu V Nesterenko Translated from the Russian by Neal Koblitz Contents Notation 9 Introduction 11 0 1 Preliminary Remarks 11 0 2 Irrationality of $\sqrt{2}$ 11 0 3 The Number 1C 13 0 4 Transcendental Numbers 14 0 5 Approximation of Algebraic Numbers 15 0 6 Transcendence Questions and Other Branches of Number Theory 16 0 7 The Basic Problems Studied in Transcendental Number Theory 17 0 8

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Number Theory R.P. Bambah, V.C. Dumir, R.J. Hans-Gill, 2012-12-06 The Indian National Science Academy on the occasion of the Golden Jubilee Celebration Fifty years of India's Independence decided to publish a number of monographs on the selected fields The editorial board of INS A invited us to prepare a special monograph in Number Theory In response to this assignment we invited several eminent Number Theorists to contribute expository research articles for this monograph on Number Theory Although some of those invited due to other preoccupations could not respond positively to our invitation we did receive fairly encouraging response from many eminent and creative number theorists throughout the world These articles are presented herewith in a logical order We are grateful to all those mathematicians who have sent us their articles We hope that this monograph will have a significant impact on further development in this subject R P Bambah v C Dumir R J Hans Gill A Centennial History of the Prime Number Theorem Tom M Apostol The Prime Number Theorem Among the thousands of discoveries made by mathematicians over the centuries some stand out as significant landmarks One of these is the prime number theorem which describes the asymptotic distribution of prime numbers It can be stated in various equivalent forms two of which are $\pi(x) \sim \frac{x}{\log x}$ and $\sum_{p \leq x} \frac{1}{p} \sim \log \log x$ $\pi(x)$ denotes the number of primes $P \leq x$ for any $x > 0$ The Journal of the Indian Mathematical Society Indian Mathematical Society, 1983 Vols for 1923-32 include separately paged sections Notes and questions and Progress report **Translations. Ser. 1, 2. Number theory and analysis** American Mathematical Society, N. G. Cudakov, 1962 *Encyclopaedia of Mathematics, Supplement III* Michiel Hazewinkel, 2007-11-23 This is the third supplementary volume to Kluwer's highly acclaimed twelve volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available

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