Carl Pomerance · Michael Th. Rassias

Editors

Analytic Number Theory

In Honor of Helmut Maier's 60th Birthday

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Pomerance,Michael Th. Rassias,2025-10-12 This book offers a comprehensive exploration of cutting edge research in Analytic Number Theory celebrating the profound contributions of Helmut Maier on his 70th birthday With chapters penned by leading mathematicians from around the globe this volume presents state of the art findings and insights into a wide array of topics within the field Readers will encounter in depth studies on subjects such as random matrix models for cusp forms the Chevalley Bass theorem and Weierstrass Fractal Drums The book also delves into the L_q norm of Rudin Shapiro polynomials shifted prime divisors and sharp local estimates for smooth numbers Further it examines the invariants of L functions an analogue of the Mertens function the Riemann Hypothesis zeta function Dirichlet polynomials and exponential sums This collection is an invaluable resource for graduate students and seasoned researchers in Analytic Number Theory and related disciplines It not only honors Maier s groundbreaking work but also serves as a beacon for future research offering insights and methodologies that will inspire continued exploration and discovery in the field *Number Theory Related to Modular Curves* Joan-Carles Lario,V. Kumar Murty,2018-01-29 This volume contains the proceedings of the Barcelona Boston Tokyo Number Theory Seminar which was held in memory of Fumiyuki Momose a distinguished number theorist from Chuo University in Tokyo Momose who was a student of Yasutaka Ihara made important contributions to the theory of Galois representations attached to modular forms rational points on elliptic and modular curves modularity of some families of Abelian varieties and applications of arithmetic geometry to cryptography Papers contained in this volume cover these general themes in addition to discussing Momose s contributions as well as recent work and new results **Reviews in Number Theory 1973-83** Richard K. Guy,1984 **Mathematical Reviews** ,2002 <u>Forthcoming Books</u> Rose Arny,1997-04 **Basic Analytic Number Theory** Anatolij A. Karatsuba,2012-12-06 This English translation of Karatsuba s Basic Analytic Number Theory follows closely the second Russian edition published in Moscow in 1983 For the English edition the author has considerably rewritten Chapter I and has corrected various typographical and other minor errors throughout the the text August 1991 Melvyn B Nathanson Introduction to the English Edition It gives me great pleasure that Springer Verlag is publishing an English trans lation of my book In the Soviet Union the primary purpose of this monograph was to introduce mathematicians to the basic results and methods of analytic number theory but the book has also been increasingly used as a textbook by graduate students in many different fields of mathematics I hope that the English edition will be used in the same ways I express my deep gratitude to Professor Melvyn B Nathanson for his excellent translation and for much assistance in correcting errors in the original text A A Karatsuba Introduction to the Second Russian Edition Number theory is the study of the properties of the integers Analytic number theory is that part of number theory in which besides purely number theoretic arguments the methods of mathematical analysis play an essential role *Efficient Algorithms* Helmut Alt,2009-08-28 This Festschrift volume published in honor of Kurt Mehlhorn on the occasion of his 60th birthday contains 28 papers written by his former Ph D students and colleagues as well as by his former Ph D advisor Bob

Constable The volume s title is a translation of the title of Kurt Mehlhorn s first book Effiziente Algorithmen published by Teubner Verlag in 1977 This Festschrift demonstrates how the field of algorithmics has developed and matured in the decades since then The papers included in this volume are organized in topical sections on models of computation and complexity sorting and searching combinatorial optimization with applications computational geometry and geometric graphs and algorithm engineering exactness and robustness **Horizons of Fractal Geometry and Complex Dimensions** Robert G. Niemeyer,Erin P. J. Pearse,John A. Rock,Tony Samuel,2019-06-26 This volume contains the proceedings of the 2016 Summer School on Fractal Geometry and Complex Dimensions in celebration of Michel L Lapidus s 60th birthday held from June 21 29 2016 at California Polytechnic State University San Luis Obispo California The theme of the contributions is fractals and dynamics and content is split into four parts centered around the following themes Dimension gaps and the mass transfer principle fractal strings and complex dimensions Laplacians on fractal domains and SDEs with fractal noise and aperiodic order Delone sets and tilings *A Primer of Analytic Number Theory* Jeffrey Stopple,2003-06-23 This 2003 undergraduate introduction to analytic number theory develops analytic skills in the course of studying ancient questions on polygonal numbers perfect numbers and amicable pairs The question of how the primes are distributed amongst all the integers is central in analytic number theory This distribution is determined by the Riemann zeta function and Riemann s work shows how it is connected to the zeroes of his function and the significance of the Riemann Hypothesis Starting from a traditional calculus course and assuming no complex analysis the author develops the basic ideas of elementary number theory The text is supplemented by series of exercises to further develop the concepts and includes brief sketches of more advanced ideas to present contemporary research problems at a level suitable for undergraduates In addition to proofs both rigorous and heuristic the book includes extensive graphics and tables to make analytic concepts as concrete as possible

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