Introductory Algebraic Number Theory Alaca

Number Theory in the Spirit of LiouvilleModular Forms and Related Topics in Number TheoryGeometry, Algebra, Number Theory, and Their Information Technology ApplicationsAdvances in the Theory of NumbersA Textbook of Algebraic Number TheoryAnalytic Number Theory, Modular Forms and q-Hypergeometric SeriesIntroductory Algebraic Number TheoryRamanujan's Theta FunctionsIntroduction to Applications of Modular FormsElementary Number Theory and Its ApplicationsFar East Journal of Mathematical SciencesActa ArithmeticaMathematical ReviewsApplicationes MathematicaeAlgebraic Number Theory and Fermat's Last TheoremThe Mathematical GazetteBulletin of the Polish Academy of SciencesAmerican Book Publishing RecordLambert Series and Liouville's IdentitiesIndian Science Abstracts Kenneth S. Williams B. Ramakrishnan Amir Akbary Ayşe Alaca Sudesh Kaur Khanduja George E. Andrews Şaban Alaca Shaun Cooper Zafer Selcuk Aygin Kenneth H. Rosen Ian Stewart

Number Theory in the Spirit of Liouville Modular Forms and Related Topics in Number Theory Geometry, Algebra, Number Theory, and Their Information Technology Applications Advances in the Theory of Numbers A Textbook of Algebraic Number Theory Analytic Number Theory, Modular Forms and q-Hypergeometric Series Introductory Algebraic Number Theory Ramanujan's Theta Functions Introduction to Applications of Modular Forms Elementary Number Theory and Its Applications Far East Journal of Mathematical Sciences Acta Arithmetica Mathematical Reviews Applicationes Mathematicae Algebraic Number Theory and Fermat's Last Theorem The Mathematical Gazette Bulletin of the Polish Academy of Sciences American Book Publishing Record Lambert Series and Liouville's Identities Indian Science Abstracts *Kenneth S. Williams B. Ramakrishnan Amir Akbary Ayşe Alaca Sudesh Kaur Khanduja George E. Andrews Şaban Alaca Shaun Cooper Zafer Selcuk Aygin Kenneth H. Rosen Ian Stewart*

a gentle introduction to liouville s powerful method in elementary number theory suitable for advanced undergraduate

and beginning graduate students

this book collects the papers presented at the conference on number theory held at the kerala school of mathematics kozhikode kerala india from december 10 14 2018 the conference aimed at bringing the active number theorists and researchers in automorphic forms and allied areas to demonstrate their current research works this book benefits young research scholars postdoctoral fellows and young faculty members working in these areas of research

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

the theory of numbers continues to occupy a central place in modern mathematics because of both its long history over many centuries as well as its many diverse applications to other fields such as discrete mathematics cryptography and coding theory the proof by andrew wiles with richard taylor of fermat s last theorem published in 1995 illustrates the high level of difficulty of problems encountered in number theoretic research as well as the usefulness of the new ideas arising from its proof the thirteenth conference of the canadian number theory association was held at carleton university ottawa ontario canada from june 16 to 20 2014 ninety nine talks were presented at the conference on the theme of advances in the theory of numbers topics of the talks reflected the diversity of current trends and activities in modern number theory these topics included modular forms hypergeometric functions elliptic curves distribution of prime numbers diophantine equations l functions diophantine approximation and many more this volume contains some of the papers presented at the conference all papers were refereed the high quality of the articles and their contribution to current research directions make this volume a must for any mathematics library and is particularly relevant to researchers and graduate students with an interest in

number theory the editors hope that this volume will serve as both a resource and an inspiration to future generations of researchers in the theory of numbers

this self contained and comprehensive textbook of algebraic number theory is useful for advanced undergraduate and graduate students of mathematics the book discusses proofs of almost all basic significant theorems of algebraic number theory including dedekind s theorem on splitting of primes dirichlet s unit theorem minkowski s convex body theorem dedekind s discriminant theorem hermite s theorem on discriminant dirichlet s class number formula and dirichlet s theorem on primes in arithmetic progressions a few research problems arising out of these results are mentioned together with the progress made in the direction of each problem following the classical approach of dedekind s theory of ideals the book aims at arousing the reader s interest in the current research being held in the subject area it not only proves basic results but pairs them with recent developments making the book relevant and thought provoking historical notes are given at various places featured with numerous related exercises and examples this book is of significant value to students and researchers associated with the field the book also is suitable for independent study the only prerequisite is basic knowledge of abstract algebra and elementary number theory

gathered from the 2016 gainesville number theory conference honoring krishna alladi on his 60th birthday these proceedings present recent research in number theory extensive and detailed this volume features 40 articles by leading researchers on topics in analytic number theory probabilistic number theory irrationality and transcendence diophantine analysis partitions basic hypergeometric series and modular forms readers will also find detailed discussions of several aspects of the path breaking work of srinivasa ramanujan and its influence on current research many of the papers were motivated by alladi s own research on partitions and q series as well as his earlier work in number theory alladi is well known for his contributions in number theory and mathematics his research interests include combinatorics discrete mathematics sieve methods probabilistic and analytic number theory diophantine approximations partitions and q series identities graduate students and researchers will find this volume a valuable resource on new developments in various aspects of number theory

an introduction to algebraic number theory for senior undergraduates and beginning graduate students in

mathematics it includes numerous examples and references to further reading and to biographies of mathematicians who have contributed to the development of the subject includes over 320 exercises and an extensive index

theta functions were studied extensively by ramanujan this book provides a systematic development of ramanujan s results and extends them to a general theory the author s treatment of the subject is comprehensive providing a detailed study of theta functions and modular forms for levels up to 12 aimed at advanced undergraduates graduate students and researchers the organization user friendly presentation and rich source of examples lends this book to serve as a useful reference a pedagogical tool and a stimulus for further research topics especially those discussed in the second half of the book have been the subject of much recent research many of which are appearing in book form for the first time further results are summarized in the numerous exercises at the end of each chapter

this book is a self contained treatment for those who study or work on the computational aspects of classical modular forms the author describes the theory of modular forms and its applications in number theoretic problems such as representations by quadratic forms and the determination of asymptotic formulas for fourier coefficients of different types of special functions a detailed account of recent applications of modular forms in number theory with a focus on using computer algorithms is provided computer algorithms are included for each presented application to help readers put the theory in context and make new conjectures

elementary number theory and its applicationsis noted for its outstanding exercise sets including basic exercises exercises designed to help students explore key concepts and challenging exercises computational exercises and computer projects are also provided in addition to years of use and professor feedback the fifth edition of this text has been thoroughly checked to ensure the quality and accuracy of the mathematical content and the exercises the blending of classical theory with modern applications is a hallmark feature of the text the fifth edition builds on this strength with new examples and exercises additional applications and increased cryptology coverage the author devotes a great deal of attention to making this new edition up to date incorporating new results and discoveries in number theory made in the past few years

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

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