

PROCEEDINGS  
OF  
THE FIRST INTERNATIONAL CONFERENCE  
ON  
SMARANDACHE TYPE NOTIONS  
IN  
NUMBER THEORY

second edition



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# Number Theory Proceedings Of The First Conference

**Richard A. Mollin**



## **Number Theory Proceedings Of The First Conference:**

*Proceedings of the 1st mini symposium of the Roman Number Theory Association* Marina Monsurrò, Francesco Pappalardi, Valerio Talamanca, 2016-05-02 This volume contains the proceeding of the first miny symposium of the Roman Number Theory Association The conference was held on May 7 2015 at the Universit Europea di Roma and it represented the first initiative of the association As organizers of the symposium and promoters of the constituent association we thank the speakers for the high scientific contribution offered and the scribas who wrote these notes We also thank the Universit Europea di Roma and the Universit Roma Tre for funding the event This first conference whose proceedings are collected here is evidence of our goal to be a key player in the development of a strong Roman community of number theorists and by this we do not only intend to foster a specific scientific program but also and more importantly to create a framework of opportunities for scientific cooperation for those interested in number theory Among these opportunities we can enlist the Scriba project as well as international cooperation with developing countries and the support of young researcher in number theory with special regards to those coming from developing country The association even tough founded and based in Rome has an international spirit and we strongly believe in international cooperation In an effort to make the Roman Number Theory Association work efficiently and achieve its multiple goals we chose to turn it into an NGO The proceedings of a conference usually collect the most significant contributions presented during the conference itself The manuscripts were approved by the speakers and lastly reviewed by the editors of the present volume **Number Theory** Richard A. Mollin, 1990 These proceedings contain 45 refereed papers in diverse areas of number theory including algebraic analytic elementary and computational number theory elliptic curves connections with logic and complexity of algorithms For computer scientists as well as number theorists and research mathematicians in general Annotation copyrighted by Book News Inc Portland OR [The Analytical and Topological Theory of Semigroups](#) Karl H. Hofmann, Jimmie D. Lawson, John S. Pym, 2011-05-03 The aim of the series is to present new and important developments in pure and applied mathematics Well established in the community over two decades it offers a large library of mathematics including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers wishing to thoroughly study the topic Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich and Z Janko Groups of Prime Power Order Volume 6 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in

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*Number Theory with an Emphasis on the Markoff Spectrum* Andrew Pollington, 2017-10-05 Presenting the proceedings of a recently held conference in Provo Utah this reference provides original research articles in several different areas of number theory highlighting the Markoff spectrum Detailing the integration of geometric algebraic analytic and arithmetic ideas Number Theory with an Emphasis on the Markoff Spectrum contains refereed contributions on general problems of diophantine approximation quadratic forms and their connections with automorphic forms the modular group and its subgroups continued fractions hyperbolic geometry and the lower part of the Markoff spectrum Written by over 30 authorities in the field this book should be a useful resource for research mathematicians in harmonic analysis number theory algebra geometry and probability and graduate students in these disciplines *Advanced Number Theory with Applications* Richard A. Mollin, 2009-08-26 Exploring one of the most dynamic areas of mathematics Advanced Number Theory with Applications covers a wide range of algebraic analytic combinatorial cryptographic and geometric aspects of number theory Written by a recognized leader in algebra and number theory the book includes a page reference for every citing in the bibliography and more Algorithmic Number Theory Henri Cohen, 1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding **Algebraic Number Theory** Richard A. Mollin, 2011-01-05 Bringing the material up to date to reflect modern applications this second edition has been completely rewritten and reorganized to incorporate a new style methodology and presentation It offers a more complete and involved treatment of Galois theory a more comprehensive section on Pollard's cubic factoring algorithm and more detailed explanations of proofs to provide a sound understanding of challenging material This edition also studies binary quadratic forms and compares the ideal and form class groups The text includes convenient cross referencing a comprehensive index and numerous exercises and applications Transcendental Numbers Andrei B. Shidlovskii, 2011-06-01 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 30 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to

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The Development of the Number Field Sieve Arjen K. Lenstra, Hendrik W. Jr. Lenstra, 2006-11-15 The number field sieve is an algorithm for finding the prime factors of large integers It depends on algebraic number theory Proposed by John Pollard in 1988 the method was used in 1990 to factor the ninth Fermat number a 155 digit integer The algorithm is most suited to numbers of a special form but there is a promising variant that applies in general This volume contains six research papers that describe the operation of the number field sieve from both theoretical and practical perspectives Pollard's original manuscript is included In addition there is an annotated bibliography of directly related literature

*The Mathematics of Paul Erdős II* Ronald L. Graham, Jaroslav Nešetřil, Steve Butler, 2013-08-04 This is the most comprehensive survey of the mathematical life of the legendary Paul Erdős 1913-1996 one of the most versatile and prolific mathematicians of our time For the first time all the main areas of Erdős's research are covered in a single project Because of overwhelming response from the mathematical community the project now occupies over 1000 pages arranged into two volumes These volumes contain both high level research articles as well as key articles that survey some of the cornerstones of Erdős's work each written by a leading world specialist in the field A special chapter Early Days rare photographs and art related to Erdős complement this striking collection A unique contribution is the bibliography on Erdős's publications the most comprehensive ever published This new edition dedicated to the 100th anniversary of Paul Erdős's birth contains updates on many of the articles from the two volumes of the first edition several new articles from prominent mathematicians a new introduction and more biographical information about Paul Erdős with an updated list of publications The second volume contains chapters on graph theory and combinatorics extremal and Ramsey theory and a section on infinity that covers Erdős's research on set theory All of these chapters are essentially updated particularly the extremal theory chapter that contains a survey of flag algebras a new technique for solving extremal problems

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