

Unit Equations in Diophantine Number Theory

**JAN-HENDRIK EVERTSE
KÁLMÁN GYÖRY**



Equations Diophantine Cambridge Advanced Mathematics

Cambridge Philosophical Society



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Unit Equations in Diophantine Number Theory Jan-Hendrik Evertse, Kálmán Győry, 2015-12-30 A comprehensive graduate level treatment of unit equations and their various applications

Arithmetic Geometry, Number Theory, and

Computation Jennifer S. Balakrishnan, Noam Elkies, Brendan Hassett, Bjorn Poonen, Andrew V. Sutherland, John

Voight, 2022-03-15 This volume contains articles related to the work of the Simons Collaboration Arithmetic Geometry

Number Theory and Computation The papers present mathematical results and algorithms necessary for the development of large scale databases like the L functions and Modular Forms Database LMFDB The authors aim to develop systematic tools for analyzing Diophantine properties of curves surfaces and abelian varieties over number fields and finite fields The articles also explore examples important for future research Specific topics include algebraic varieties over finite fields the Chabauty Coleman method modular forms rational points on curves of small genus S unit equations and integral points

Solving

SS\$-Unit, Mordell, Thue, Thue-Mahler and Generalized Ramanujan-Nagell Equations via the Shimura-Taniyama

Conjecture Rafael von Känel, Benjamin Matschke, 2023-06-22 View the abstract

Class Groups of Number Fields and

Related Topics Kalyan Chakraborty, Azizul Hoque, Prem Prakash Pandey, 2020-01-17 This book gathers original research

papers and survey articles presented at the International Conference on Class Groups of Number Fields and Related Topics

held at Harish Chandra Research Institute Allahabad India on September 4 7 2017 It discusses the fundamental research

problems that arise in the study of class groups of number fields and introduces new techniques and tools to study these

problems Topics in this book include class groups and class numbers of number fields units the Kummer Vandiver conjecture

class number one problem Diophantine equations Thue equations continued fractions Euclidean number fields heights

rational torsion points on elliptic curves cyclotomic numbers Jacobi sums and Dedekind zeta values This book is a valuable

resource for undergraduate and graduate students of mathematics as well as researchers interested in class groups of

number fields and their connections to other branches of mathematics New researchers to the field will also benefit

immensely from the diverse problems discussed All the contributing authors are leading academicians scientists researchers

and scholars

Number Theory Kağan Kurşungöz, Ayberk Zeytin, 2021-11-08 Three major branches of number theory are

included in the volume namely analytic number theory algebraic number theory and transcendental number theory Original

research is presented that discusses modern techniques and survey papers from selected academic scholars

Geometry and Analysis of Automorphic Forms of Several Variables Yoshinori Hamahata, 2012 This volume contains contributions of

principal speakers of the symposium on geometry and analysis of automorphic forms of several variables held in September

2009 at Tokyo Japan in honor of Takayuki Oda's 60th birthday It presents both research and survey articles in the fields that

are the main themes of his work The volume may serve as a guide to developing areas as well as a resource for researchers

who seek a broader view and for students who are beginning to explore automorphic form

Oxford, Cambridge, and

Dublin Messenger of Mathematics ,1910 *Mathematics of Complexity and Dynamical Systems* Robert A. Meyers,2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers An Invitation to Analytic Combinatorics Stephen Melczer,2020-12-22 This book uses new mathematical tools to examine broad computability and complexity questions in enumerative combinatorics with applications to other areas of mathematics theoretical computer science and physics A focus on effective algorithms leads to the development of computer algebra software of use to researchers in these domains After a survey of current results and open problems on decidability in enumerative combinatorics the text shows how the cutting edge of this research is the new domain of Analytic Combinatorics in Several Variables ACSV The remaining chapters of the text alternate between a pedagogical development of the theory applications including the resolution by this author of conjectures in lattice path enumeration which resisted several other approaches and the development of algorithms The final chapters in the text show through examples and general theory how results from stratified Morse theory can help refine some of these computability questions Complementing the written presentation are over 50 worksheets for the SageMath and Maple computer algebra systems working through examples in the text Notices of the American Mathematical Society American Mathematical Society,1993 *A Course in Mathematical Analysis: pt.2. Differential equations.* [c1917 Edouard Goursat,1916 International Catalogue of Scientific Literature, 1901-1914 ,1911 *The Higher Arithmetic* Harold Davenport,1968 *Transactions of the Cambridge Philosophical Society* Cambridge Philosophical Society,1923 **International Catalogue of Scientific Literature [1901-14].** ,1902 **Annales scientifiques de l'École normale supérieure** École normale supérieure (France),2007 *Works Relating to Mathematics* Cornell University. Library,1883 **The Mathematical Intelligencer** ,1986 *The American Mathematical Monthly* ,1903
 Annales Scientifiques de L'École Normale Supérieure ,2007

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