

<<算法数论Algorithmic num>>

图书基本信息

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作者：Claus Fieker

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### 内容概要

This book constitutes the refereed proceedings of the 5th International Algorithmic Number Theory Symposium, ANTS-V, held in Sydney, Australia, in July 2002. The 34 revised full papers presented together with 5 invited papers have gone through a thorough round of reviewing, selection and revision. The papers are organized in topical sections on number theory, arithmetic geometry, elliptic curves and CM, point counting, cryptography, function fields, discrete logarithms and factoring, Groebner bases, and complexity.

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## 书籍目录

Invited Talks Gauss Composition and Generalizations Elliptic Curves-The Crossroads of Theory and Computation The Weil and Tate Pairings as Building Blocks for Public Key Cryptosystems Using Elliptic Curves of Rank One towards the Undecidability of Hilbert's Tenth Problem over Rings of Algebraic Integers On p-adic Point Counting Algorithms for Elliptic Curves over Finite FieldsNumber Theory On Arithmetically Equivalent Number Fields of Small Degree A Survey of Discriminant Counting A Higher-Rank Mersenne Problem An Application of Siegel Modular Functions to Kronecker's Limit Formula Computational Aspects of NUCOMP Efficient Computation of Class Numbers of Real Abelian Number Fields An Accelerated Buchmann Algorithm for Regulator Computation in Real Quadratic FieldsArithmetic Geometry Some Genus 3 Curves with Many Points Trinomials  $ax^7 + bx + c$  and  $ax^8 + bx + c$  with Galois Groups of Order 168 and  $8 - 168$  Computations on Modular Jacobian Surfaces Integral Points on Punctured Abelian Surfaces Genus 2 Curves with (3, 3)-Split Jacobian and Large Automorphism Group Transportable Modular Symbols and the Intersection PairingElliptic Curves and CM Action of Modular Correspondences around CM Points Curves  $Dy^2 = x^3 - x$  of Odd Analytic Rank Comparing Invariants for Class Fields of Imaginary Quadratic Fields . A Database of Elliptic Curves - First ReportPoint Counting Isogeny Volcanoes and the SEA Algorithm Fast Elliptic Curve Point Counting Using Gaussian Normal Basis An Extension of Kedlaya's Algorithm to Artin-Schreier Curves in Characteristic 2CryptographyFunction FieldsDiscrete Logarithms and FactoringGrobner BasesComplexityAuthor Index

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### 媒体关注与评论

From the reviews: "The book contains 39 articles about computational algebraic number theory, arithmetic geometry and cryptography. a ] The articles in this book reflect the broad interest of the organizing committee and the participants. The emphasis lies on the mathematical theory as well as on computational results. We recommend the book to students and researchers who want to read about current research in number theory and arithmetic geometry and its applications." (R. Carls, Nieuw Archief voor Wiskunde, Vol. 6 (3), 2005)

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