

<<算法数论/Algorithmic number theory>>

图书基本信息

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内容概要

This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium, ANTS 2006, held in Berlin, Germany in July 2006. The 37 revised full papers presented together with 4 invited papers were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on algebraic number theory, analytic and elementary number theory, lattices, curves and varieties over fields of characteristic zero, curves over finite fields and applications, and discrete logarithms.

书籍目录

Invited Talks Computing Pro-P Galois Groups The Elliptic Curve Database for Conductors to 130000 On the Computation of the Coefficients of a Modular Form Cohen-Lenstra Heuristics of Quadratic Number Fields Algebraic Number Theory An Algorithm for Computing p-Class Groups of Abelian Number Fields Computation of Locally Free Class Groups Numerical Results on Class Groups of Imaginary Quadratic Fields Cyclic Polynomials Arising from Kummer Theory of Norm Algebraic Tori The Totally Real Primitive Number Fields of Discriminant at Most 109 A Modular Method for Computing the Splitting Field of a Polynomial Analytic and Elementary Number Theory On the Density of Sums of Three Cubes The Mertens Conjecture Revisited Fast Bounds on the Distribution of Smooth Numbers Use of Extended Euclidean Algorithm in Solving a System of Linear Diophantine Equations with Bounded Variables The Pseudosquares Prime Sieve Doubly-Focused Enumeration of Pseudosquares and Pseudocubes Lattices Practical Lattice Basis Sampling Reduction LLL on the Average On the Randomness of Bits Generated by Sufficiently Smooth Functions Curves and Varieties over Fields of Characteristic Zero Computing a Lower Bound for the Canonical Height on Elliptic Curves over \mathbb{Q} Points of Low Height on Elliptic Curves and Surfaces I: Elliptic Surfaces over 171 with Small d Shimura Curves for Level-3 Subgroups of the $(2, 3, 7)$ Triangle Group and Some Other Examples Curves over Finite Fields and Applications Discrete Logarithms Author Index

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