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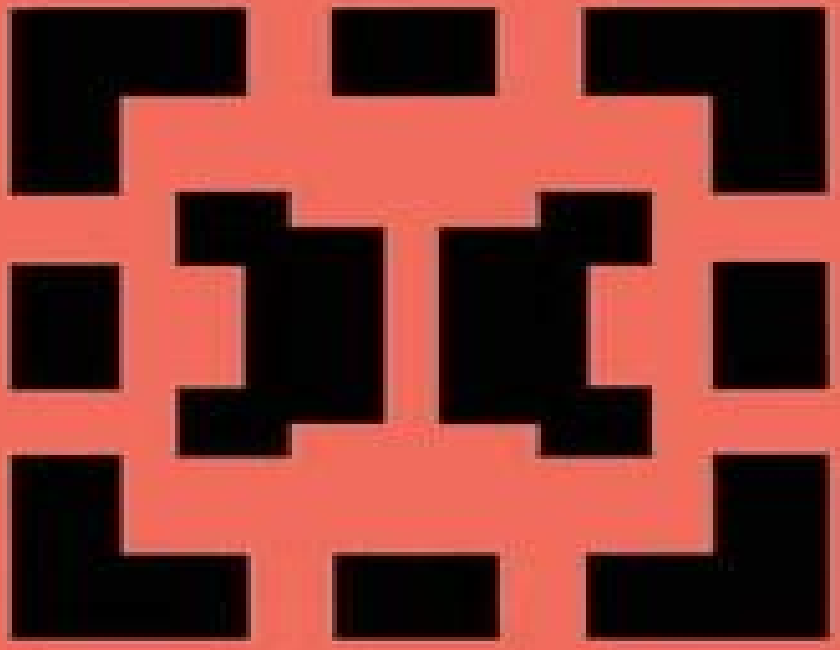
Computational and Algorithmic Problems in Finite Fields



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Computational And Algorithmic Problems In Finite Fields

Peter L. A. Roelse

Computational And Algorithmic Problems In Finite Fields:

Computational and Algorithmic Problems in Finite Fields Igor Shparlinski,2012-12-06 This volume presents an exhaustive treatment of computation and algorithms for finite fields Topics covered include polynomial factorization finding irreducible and primitive polynomials distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other araes of mathematics For completeness also included are two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number generators modular arithmetic etc and computational number theory primality testing factoring integers computing in algebraic number theory etc The problems considered here have many applications in computer science coding theory cryptography number theory and discrete mathematics The level of discussion presuppose only a knowledge of the basic facts on finite fields and the book can be recommended as supplementary graduate text For researchers and students interested in computational and algorithmic problems in finite fields Finite Fields Igor Shparlinski,2014-01-15 **Finite Fields: Theory, Applications, and Algorithms** Gary L. Mullen,Peter Jau-Shyong Shiue,1994 Because of their applications in so many diverse areas finite fields continue to play increasingly important roles in various branches of modern mathematics including number theory algebra and algebraic geometry as well as in computer science information theory statistics and engineering Computational and algorithmic aspects of finite field problems also continue to grow in importance This volume contains the refereed proceedings of a conference entitled Finite Fields Theory Applications and Algorithms held in August 1993 at the University of Nevada at Las Vegas Among the topics treated are theoretical aspects of finite fields coding theory cryptology combinatorial design theory and algorithms related to finite fields Also included is a list of open problems and conjectures This volume is an excellent reference for applied and research mathematicians as well as specialists and graduate students in information theory computer science and electrical engineering Algorithmic Number Theory: Efficient algorithms Eric Bach,Jeffrey Outlaw Shallit,1996 Volume 1

Algorithms and Computation Ding-Zhu Du,Xiang-Sun Zhang,1994-07-27 This volume is the proceedings of the fifth International Symposium on Algorithms and Computation ISAAC 94 held in Beijing China in August 1994 The 79 papers accepted for inclusion in the volume after a careful reviewing process were selected from a total of almost 200 submissions Besides many internationally renowned experts a number of excellent Chinese researchers present their results to the international scientific community for the first time here The volume covers all relevant theoretical and many applicational aspects of algorithms and computation Finite Fields and Applications Gary L. Mullen,Daniel Panario,Igor E. Shparlinski,2008 This volume contains the proceedings of the Eighth International Conference on Finite Fields and Applications held in Melbourne Australia July 9 13 2007 It contains 5 invited survey papers as well as original research articles covering various theoretical and applied areas related to finite fields Finite fields and the computational and

algorithmic aspects of finite field problems continue to grow in importance and interest in the mathematical and computer science communities because of their applications in so many diverse areas In particular finite fields now play very important roles in number theory algebra and algebraic geometry as well as in computer science statistics and engineering Areas of application include algebraic coding theory cryptology and combinatorialdesign theory **Algorithms and Computation** ,1999 *Linear Methods for Polynomial Factorization Over Finite Fields* Peter L. A. Roelse,1997 *Finite Fields: Theory, Applications and Algorithms* Ronald Cleveland Mullin,Gary L. Mullen,1999 The Ontario conference drew workers from theoretical applied and algorithm finite field theory to share their recent findings applying finite fields to such areas as number theory algebra and algebraic geometry The 21 topics include actions of linearized polynomials on the algebraic closure of a finite field kernels and defaults computing zeta functions over finite fields and the state complexity of some long codes No index Member prices are 39 for institutions and 29 for individuals Annotation copyrighted by Book News Inc Portland OR *Proceedings of the 33rd Annual ACM Symposium on Theory of Computing* ,2001 **Applications of Finite Fields** Dieter Gollmann,1996 This book discusses practical and theoretical work on the applications of finite fields particularly coding theory and crytography It addresses issues related to the construction of polynomials and of bases of finite fields with specific properties It will be of value to graduate and postgraduate pure and applied mathematicians computer scientists and engineers **Congressus Numerantium** ,1970 **Proceedings of the Twenty-fifth Annual ACM Symposium on Theory of Computing** ,1993 **Bulletin of the American Mathematical Society** ,1994 **Proceedings of the Twenty-sixth Annual ACM Symposium on the Theory of Computing** ,1994 Polynomial and Matrix Computations: Fundamental algorithms Dario Bini,1994 SIAM Journal on Computing Society for Industrial and Applied Mathematics,2003 Contains research articles in the application of mathematics to the problems of computer science and the nonnumerical aspects of computing **Bulletin (new Series) of the American Mathematical Society** ,1994 **Reviews in Number Theory, 1984-96** ,1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in Mathematical Reviews between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984 *Transactions of the American Mathematical Society* American Mathematical Society,1995

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