

1. Record Nr.	UNINA9910788632303321
Titolo	Finite fields : theory and applications : Ninth International Conference on Finite Fields and Applications, July 13-17, 2009, Dublin, Ireland // Gary McGuire [and three others], editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2010] ©2010
ISBN	0-8218-8197-3 0-8218-4786-4
Descrizione fisica	1 online resource (394 p.)
Collana	Contemporary mathematics, ; 518 , 0271-4132
Disciplina	512/.3
Soggetti	Finite fields (Algebra) Arithmetical algebraic geometry Number theory Coding theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents -- Preface -- Construction of new toric quantum codes -- On the calculation of the linear complexity of periodic sequences -- A few more functions that are not APN infinitely often -- An APN permutation in dimension six -- CCZ-equivalence of single and multi output Boolean functions -- Structural weaknesses of permutations with a low differential uniformity and generalized crooked functions -- Solvability of systems of polynomial equations with some prescribed monomials -- Character sums in finite fields -- Monomial functions with linear structure and permutation polynomials -- Primitive elements on lines in extensions of finite fields -- Commutative semifields of order 243 and 3125 -- Normal elliptic bases and torus-based cryptography -- Unitary superperfect binary polynomials -- Shift-invariant polynomials and Ritts Second Theorem -- Waring's problem in finite fields with Dickson polynomials -- Jacobi sums and irreducible polynomials with prescribed trace and restricted norm -- A family of binary sequences from interleaved construction and their cryptographic properties -- Sziklai's conjecture on the number of

points of a plane curve over a finite field II -- Folded algebraic-geometric codes from Galois extensions -- A multilinear generalization of the Tate pairing -- The merit factor of binary sequence families constructed from m-sequences -- Intractable problems in cryptography -- Modular curves and coding theory: A survey -- Minimal generating sets of Weierstrass semigroups of certain m-tuples on the norm-trace function field -- On the zeta functions of an optimal tower of function fields over  $F_4$  -- The asymptotic theory of algebraic-geometry codes -- A spectrum result on maximal partial ovoids of the generalized quadrangle  $Q(4, q)$ ,  $q$  odd -- Cyclic codes aspects of bent functions.

---