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| 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<br>0-8218-4786-4   |
| Descrizione fisica      | 1 online resource (394 p.)   |
| Collana                 | Contemporary mathematics, ; 518 , 0271-4132  |
| Disciplina              | 512/.3   |
| Soggetti                | Finite fields (Algebra)<br>Arithmetical algebraic geometry<br>Number theory<br>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.

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