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Nota di contenuto	Codes The Order Bound for Toric Codes An Extension of the Order Bound for AG Codes Sparse Numerical Semigroups From the Euclidean Algorithm for Solving a Key Equation for Dual Reed– Solomon Codes to the Berlekamp–Massey Algorithm Rank for Some Families of Quaternary Reed-Muller Codes Optimal Bipartite Ramanujan Graphs from Balanced Incomplete Block Designs: Their Characterizations and Applications to Expander/LDPC Codes Simulation of the Sum-Product Algorithm Using Stratified Sampling A Systems Theory Approach to Periodically Time-Varying Convolutional Codes by Means of Their Invariant Equivalent On Elliptic Convolutional Goppa Codes The Minimum Hamming Distance of Cyclic Codes of Length 2p s There Are Not Non-obvious Cyclic Affine-invariant Codes On Self-dual Codes over Z 16 Cryptography A Non-abelian Group Based on Block Upper Triangular Matrices with Cryptographic Applications Word Oriented Cascade

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Sommario/riassunto	This book constitutes the refereed proceedings of the 18th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC-18, held in Tarragona, Spain, in June 2009. The 22 revised full papers presented together with 7 extended absstracts were carefully reviewed and selected from 50 submissions. Among the subjects addressed are block codes, including list-decoding algorithms; algebra and codes: rings, fields, algebraic geometry codes; algebra: rings and fields, polynomials, permutations, lattices; cryptography: cryptanalysis and complexity; computational algebra: algebraic algorithms and transforms; sequences and boolean functions.