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    Nota di contenuto Algorithms for the shape of semialgebraic sets a new approach -- On the parameters of algebraic geometric codes -- On wiedemann's method of solving sparse linear systems -- Fast algorithms for decoding orthogonal and related codes -- Jacobian matrices and constructions in algebra -- Homogenity, pseudo-homogenity, and Gröbner basis computations -- Arithmetic on non supersingular elliptic curves -- Implementing some algorithms of kantor -- Computing roadmaps of general semi-algebraic sets -- An improved sign determination algorithm -- The 2-nd generalized Hamming weight of double-error correcting binary BCH codes and their dual codes --

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| Sommario/riassunto | The AAECC conferences focus on the algebraic aspects of modern computer science, which includes the most up-to-date and advanced topics. The topic of error-correcting codes is one where theory and implementation are unifiedinto a subject both of mathematical beauty and of practical importance. Algebraic algorithms are not only interesting theoretically but also important in computer and communication engineering and many other fields. This volume contains the proceedings of the 9th AAECC conference, held in New Orleans, LA, in October 1991. Researchers from Europe, America, Japan and other regions of the world presented papers at the conference. The papers present new results of recent theoretical and application-oriented research in the field. |