

**constructing small-bias sets from algebraic-geometric codes** - perhaps the most remarkable example of this type is that of algebraic-geometric codes (ag codes). in the seminal work of tsfasman et al. [8] it was shown that there are algebraic-

**construction of a class of algebraic-geometric codes via ...** - 45 3. new construction of ag codes before giving the construction of a class of algebraic-geometric codes, we give a brief review of the notation and concepts from algebraic geometry we shall need later.

**constructing small-bias sets from algebraic-geometric codes** - constructing small-bias sets from algebraic-geometric codes 2 a self-contained elementary description of the construction we recall the definition of an e-biased set.

**quantum algebraic-geometric codes - faculty of engineering** - construction of quantum codes, which makes use of the self-duality property of classical codes to produce quantum codes. chapter ve serves as a review and a quick reference guide on the theory of algebraic-geometric codes. chapter six describes how algebraic geometry is used to construct asymptotically good quantum codes. the machinery de-veloped is then applied to some speci c algebraic ...

**on construction and generalization of algebraic geometry codes** - algebraic geometry codes were de-fined in an algebraic geometric way, and many facts about them, in particular estimation of minimum distance and decoding algorithms, are also stated and proved algebraic geometrically.

**on algebraic geometric codes and some related codes** - the main topic of this thesis is the construction of the algebraic geometric codes (goppa codes), and their decoding by the list-decoding, which allows one to correct beyond half of the minimum distance.

**algebraic-geometric codes from vector bundles and their ...** - of the above construction. our codes can also be seen as interleaved versions of classical algebraic-geometric codes. we show that the algorithm of brown, minder and shokrollahi can be extended to this new class of codes and it corrects any number of errors up to  $t \leq \frac{d - g}{2}$ , where  $t$  is the designed correction capacity of the code and  $g$  is the curve genus. i. introduction the construction ...

**which linear codes are algebraic-geometric** - which linear codes are algebraic-geometric ? ... obtained from curves using goppa's construction. if one imposes conditions on the degree of the divisor used, then we derive criteria for linear codes to be algebraic-geometric. in particular, we investigate the family of q-ary hamming codes, and prove that only those with redundancy one or two, and the binary [7,4,3] code are algebraic ...

**algebraic geometry codes - tu/e** - codes but to give an account of the construction and decoding of these codes which can be treated in a self-contained and elementary way. the key concept in our treatment is the notion of an order function .

**residual representation of algebraic-geometric codes** - algebraic-geometric codes in a way more simple and explicit than it can be done so far. in the first part of this paper we will provide the necessary details about duality theory for general curves over finite (or more generally perfect) fields, and in particular we will recall the construction of residues using regular differential forms and traces. this can be done very explicitly and ...

**algebraic geometric codes: basic notions** - the book you hold in your hands is devoted to algebraic geometry codes, a comparatively young domain which emerged in the early 1980s at the meeting-point of several fields of mathematics.

**algebraic-geometric codes and asymptotic problems** - algebraic-geometric codes 243 polynomial problems. it is difficult to explain what we mean by saying that know an explicit construction of a code.

**list decoding reed-solomon, algebraic-geometric, and ...** - ag codes, but our construction here gives subcodes of reed-solomon and ag codes themselves (albeit with restrictions on the evaluation points). further, the underlying algebraic idea also extends nicely to gabidulin's construction of rank-metric codes based on linearized polynomials. this gives the first construction of positive rate rank-metric codes list decodable beyond half the distance ...

**algebraic geometry codes - massachusetts institute of ...** - codes but to give an account of the construction and decoding of these codes which can be treated in a self-contained and elementary way. the key concept in our treatment is the notion of an order function .

**constructions of codes from number fields - researchgate** - solomon codes to algebraic-geometric codes. our construction is very similar to (and in fact our construction is very similar to (and in fact less general than) the one given by lenstra [9], but ...

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