

**ALGEBRAIC GEOMETRY IN CODING THEORY AND  
CRYPTOGRAPHY**

Jennifer Poinsett

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## Lattices and applications to cryptography and coding theory | CIMPA

Application of Algebraic-Geometric Codes in Cryptography .. difficult. Another difficulty in coding theory is the problem of finding weights of a linear code. That.

### Algebraic Geometry in Coding Theory and Cryptography : Harald Niederreiter :

Coding Theory and Cryptography are two areas of interest which Theory of Algebraic function fields for the construction of Algebraic-Geometric Codes.

Algebraic Geometry in Coding Theory and Cryptography by Harald Niederreiter, , available at Book Depository with free.

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For these  $q$   $m$  points, the type of distribution behavior we are interested in depends only on the choice of the matrices  $C$  1. By proceeding as in Corollary 5. HoweKristinE. The important special case where the group is that of  $F_q$ -rational points of an elliptic curve over  $F_q$  leads to elliptic-curve cryptosystems, which are discussed in Section 6. We develop the theory of algebraic function fields of one variable by starting from the concept of a valuation. Before that, we have to prove the following lemma. A simple choice for the divisors  $G_1$  .