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2. Preliminaries 3. A construction from arcs in d-flats; 4. A construction from arcs of higher degree; 5. Affine constructions; 6. Conclusion; Acknowledgments; References; Codes over  $F_p^2$  and  $F_p \times F_p$ , lattices, and theta functions T. Shaska and C. Shor; 1. Introduction; 2. Preliminaries; 2.1. Theta functions over  $F_p$ ; 3. Theta functions of codes over  $R$ ; 3.1. A MacWilliams identity; 3.2. A generalization of the symmetric weight enumerator polynomial; 4. The injectivity of construction A; 4.1. The case  $p = 2$ ; 4.2. The case  $p > 2$ ; Acknowledgment; References

Goppa codes and Tschirnhausen modules D. Coles and E. Previato Introduction; 1. Goppa Codes and rank-2 Vector Bundles; 2. The Klein Curve as Cover; 3. The Tschirnhausen Module of the Cover; 4. Goppa Codes and Adeles; 4.1. Adeles and pseudo-differentials; 4.2. Goppa codes and adeles; Acknowledgements; References; Remarks on s-extremal codes J.-L. Kim; 1. Introduction; 2. s-Extremal Additive  $F_4$  Codes; 3. s-Extremal Binary Codes; 4. Conclusion; Acknowledgments; References; Automorphism groups of generalized Reed-Solomon codes D. Joyner, A. Ksir and W. Traves; 1. Introduction

2. AG codes and GRS codes 3. Automorphisms; 4. Examples; 5. Structure of the representations; References; About the code equivalence I. G. Bouyukliev; 1. Introduction; 2. Codes and binary matrices; 2.1. Equivalence of linear codes; 2.2. Isomorphism of binary matrices; 2.3. The connection between equivalence of linear codes and isomorphism of binary matrices; 3. Orbits, partitions, invariants; 3.1. Orbits; 3.2. Partitions, ordered partitions; 3.3. Definition of invariants; 3.4. Properties of partitions induced by invariants; 3.5. Invariants of columns and rows; 4. Main algorithm

4.1. Additional invariants

## Sommario/riassunto

In the new era of technology and advanced communications, coding theory and cryptography play a particularly significant role with a huge amount of research being done in both areas. This book presents some of that research, authored by prominent experts in the field. The book contains articles from a variety of topics most of which are from coding theory. Such topics include codes over order domains, Groebner representation of linear codes, Griesmer codes, optical orthogonal codes, lattices and theta functions related to codes, Goppa codes and Tschirnhausen modules, s-extremal codes, automorph

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