

REED- SOLOMON CODES

AND THEIR APPLICATIONS



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Reed Solomon Codes And Their Applications

**Scott A. Vanstone, Paul C. van
Oorschot**



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Sequences and Their Applications - SETA 2010 Claude Carlet, Alexander Pott, 2010-09 This volume contains the refereed proceedings of the Sixth International Conference on Sequences and Their Applications SETA 2010 held in Paris France September 13-17 2010 The previous five conferences were held in Singapore Republic of Singapore Bergen Norway Seoul South Korea Beijing China and Lexington USA Topics of SETA include Randomness of sequences Correlation periodic and aperiodic types and combinatorial aspects of quences difference sets Sequences with applications in coding theory and cryptography Sequences over finite fields rings function fields Linear and nonlinear feedback shift register sequences Sequences for radar distance ranging synchronization identification and hardware testing Sequences for wireless communication Pseudorandom sequence generators Boolean and vectorial functions for sequences coding and or cryptography Multidimensional sequences and their correlation properties Linear and nonlinear complexity of sequences The Technical Program Committee of SETA 2010 refereed 56 submitted papers Each paper was reviewed by at least 2 referees at least 3 when an author was a TPC member and the TPC selected 33 papers to be presented at the conference In addition we had 4 invited papers by Robert Calderbank Princeton University USA James Massey retired from ETH Zurich Switzerland Jong Seon No Seoul National University South Korea and Arne Winterhof Österreichische Akademie der Wissenschaften Austria

TheCo chairsoftheTPCwereClaudeCarlet Universit eParis8 France and Alexander Pott Otto von Guericke Universit at Magdeburg Germany They wish to thank the other members of the ProgramCommittee Thierry P *Fundamentals of Codes, Graphs, and Iterative Decoding* Stephen B. Wicker,Saejoon Kim,2006-04-18 Fundamentals of Codes Graphs and Iterative Decoding is an explanation of how to introduce local connectivity and how to exploit simple structural descriptions Chapter 1 provides an overview of Shannon theory and the basic tools of complexity theory communication theory and bounds on code construction Chapters 2 4 provide an overview of classical error control coding with an introduction to abstract algebra and block and convolutional codes Chapters 5 9 then proceed to systematically develop the key research results of the 1990s and early 2000s with an introduction to graph theory followed by chapters on algorithms on graphs turbo error control low density parity check codes and low density generator codes Introduction to Coding Theory Jurgen Bierbrauer,2018-10-03 Although its roots lie in information theory the applications of coding theory now extend to statistics cryptography and many areas of pure mathematics as well as pervading large parts of theoretical computer science from universal hashing to numerical integration Introduction to Coding Theory introduces the theory of error correcting codes in a thorough but gentle presentation Part I begins with basic concepts then builds from binary linear codes and Reed Solomon codes to universal hashing asymptotic results and 3 dimensional codes Part II emphasizes cyclic codes applications and the geometric description of codes The author takes a unique more natural approach to cyclic codes that is not couched in ring theory but by virtue of its simplicity leads to far reaching generalizations Throughout the book his discussions are packed with applications that include but reach well beyond data transmission with each one introduced as soon as the codes are developed Although designed as an undergraduate text with myriad exercises lists of key topics and chapter summaries Introduction to Coding Theory explores enough advanced topics to hold equal value as a graduate text and professional reference Mastering the contents of this book brings a complete understanding of the theory of cyclic codes including their various applications and the Euclidean algorithm decoding of BCH codes and carries readers to the level of the most recent research **An**

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