

Key Papers in

The Development of Coding Theory

Edited by

Elwyn R. Berlekamp



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Key Papers In The Development Of Coding Theory

Robert H. Morelos-Zaragoza

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Algebraic Coding Theory and Applications Carlos R. P. Hartmann, Giuseppe Longo, 2013-12-19

Algebraic Coding Theory (Revised Edition) Elwyn R Berlekamp, 2015-03-26 This is the revised edition of Berlekamp's famous book Algebraic Coding Theory originally published in 1968 wherein he introduced several algorithms which have subsequently dominated engineering practice in this field. One of these is an algorithm for decoding Reed Solomon and Bose Chaudhuri Hocquenghem codes that subsequently became known as the Berlekamp Massey Algorithm. Another is the Berlekamp algorithm for factoring polynomials over finite fields whose later extensions and embellishments became widely used in symbolic manipulation systems. Other novel algorithms improved the basic methods for doing various arithmetic operations in finite fields of characteristic two. Other major research contributions in this book included a new class of Lee metric codes and precise asymptotic results on the number of information symbols in long binary BCH codes. Selected chapters of the book became a standard graduate textbook. Both practicing engineers and scholars will find this book to be of great value.

Arithmetic, Geometry, and Coding Theory R. Pellikaan, M. Perret, S.G.

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in single user systems Covers algebraic decoding modulation techniques channel coding and channel equalisation

Handbook of Coding Theory Vera Pless,William Cary Huffman,Richard A. Brualdi,1998-11-16 **Post-Shannon Signal**

Architectures George M. Calhoun,2003 Get the fundamental concepts latest design techniques and the most advanced architectures for tackling critical wireless communication problems such as capacity error correction and channel interference with this new book It provides you with concepts that include signal interference avoidance and management as part of the design and other forms of signal hardening such as error correction advanced coding and convolution and signal shaping techniques such as source coding baseband signal shaping adaptive air interfaces RF signal shaping and smart antenna technologies *International Symposium on Information and Coding Theory* Dalton S. Arantes,Pushpa N. Rathie,1991

Entropy and Information Theory Robert M. Gray,2011-01-27 This book is an updated version of the information theory classic first published in 1990 About one third of the book is devoted to Shannon source and channel coding theorems the remainder addresses sources channels and codes and on information and distortion measures and their properties New in this edition Expanded treatment of stationary or sliding block codes and their relations to traditional block codes Expanded discussion of results from ergodic theory relevant to information theory Expanded treatment of B processes processes formed by stationary coding memoryless sources New material on trading off information and distortion including the Marton inequality New material on the properties of optimal and asymptotically optimal source codes New material on the relationships of source coding and rate constrained simulation or modeling of random processes Significant material not covered in other information theory texts includes stationary sliding block codes a geometric view of information theory provided by process distance measures and general Shannon coding theorems for asymptotic mean stationary sources which may be neither ergodic nor stationary and d bar continuous channels

Fundamentals of Convolutional Coding Rolf Johannesson,Kamil Sh. Zigangirov,1999-03-31 Written by two leading authorities in coding and information theory this book brings readers a clear and comprehensive discussion of the basic principals underlying convolutional coding Fundamentals of Convolutional Codes is unmatched in the field for its accessible analysis of the structural properties of convolutional

encoders **The Art of Error Correcting Coding** Robert H. Morelos-Zaragoza,2006-08-21 This text provides introductory material offering examples of decoding algorithms of practical classes of error correcting codes implemented in C language and provides examples of the most popular decoding algorithms

Communication Satellite Systems Richard G. Gould,Y. F. Lum,1976 *Energy and Man* Millett Granger Morgan,1975

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