

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

**R. Pellikaan, M. Perret, S.G. Vladut**



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Arithmetic, Geometry, and Coding Theory R. Pellikaan, M. Perret, S.G. Vladut, 2011-07-20 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences. Each volume is associated with a particular conference symposium or workshop. These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments, methods and applications.

**Biographical Memoirs** National Academy of Sciences, 2009-11-20 Biographic Memoirs Volume 91 contains the biographies of deceased members of the National Academy of Sciences and bibliographies of their published works. Each biographical essay was written by a member of the Academy familiar with the professional career of the deceased. For historical and bibliographical purposes, these volumes are worth returning to time and again.

**Wireless Communications** Giorgio A. Vitetta, Desmond P. Taylor, Giulio Colavolpe, Fabrizio Panchaldi, Philippa A. Martin, 2013-03-29 This book introduces the theoretical elements at the basis of various classes of algorithms commonly employed in the physical layer and in part in MAC layer of wireless communications systems. It focuses on single user systems so ignoring multiple access techniques. Moreover, emphasis is put on single input single output SISO systems although some relevant topics about multiple input multiple output MIMO systems are also illustrated. Comprehensive wireless specific guide to algorithmic techniques. Provides a detailed analysis of channel equalization and channel coding for wireless applications. Unique conceptual approach focusing 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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