

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

**Richard K. Guy**



## Key Papers In The Development Of Coding Theory:

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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 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

Optical Coding Theory with Prime Wing C. Kwong, Guu-Chang Yang, 2018-09-03 Although several books cover the coding theory of wireless communications and the hardware technologies and coding techniques of optical CDMA no book has been specifically dedicated to optical coding theory until now Written by renowned authorities in the field Optical Coding Theory with Prime gathers together in one volume the fundamentals and developments of optical coding theory with a focus on families of prime codes supplemented with several families of non prime codes The book also explores potential applications to coding based optical systems and networks Learn How to Construct and Analyze Optical Codes The authors use a theorem proof approach breaking down theories into digestible form so that readers can understand the main message without searching through tedious proofs The book begins with the mathematical tools needed to understand and apply optical coding theory from Galois fields and matrices to Gaussian and combinatorial analytical tools Using a wealth of examples the authors show how optical codes are constructed and analyzed and detail their performance in a variety of applications The book examines families of 1 D and 2 D asynchronous and synchronous multilength and 3 D prime codes and some non prime codes Get a Working Knowledge of Optical Coding Theory to Help You Design Optical Systems and Networks Prerequisites include a basic knowledge of linear algebra and coding theory as well as a foundation in probability and communications theory This book draws on the authors extensive research to offer an authoritative reference on the emerging field of optical coding theory In addition it supplies a working knowledge of the theory and optical codes to help readers in the design of coding based optical systems and networks For more on the technological aspects of optical CDMA see Optical Code Division Multiple Access Fundamentals and Applications CRC Press 2005 **Arithmetic, Geometry, and Coding Theory** Ruud

Pellikaan, Marc Perret, Serge G. Vlăduț, 1996 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 **Theory and Practice of Error Control Codes** Richard E. Blahut, 1983

Reviews in Number Theory 1973-83 Richard K. Guy, 1984 **U.S. Government Research & Development Reports**  
, 1970 *IBM Journal of Research and Development* , 1980 From Error-correcting Codes Through Sphere Packings to

Simple Groups Thomas Miller Thompson,1979      Japanese Technical Abstracts ,1987      **Elementary Education Acts, 1870&1873. The New Code, 1875, with notes, analysis, appendix, and index and an introductory sketch of the administration of the grants for public elementary education 1839-1874, etc** Henry James Gibbs,1875      *Computer Books and Serials in Print* ,1984

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