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Error Control Coding



Second Edition



Shu Lin
Daniel J. Costello, Jr.

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Stephen G. Wilson



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Error Control Coding Shu Lin, Daniel J. Costello, 1983 Completely updated to cover latest developments this text provides a bridge between introductory courses in digital communications and more advanced courses in information technology It presents state of the art control techniques Mobile Computing C.S.R. Prabhu, 2003 Papers presented at the National Conference on Mobile Computing held at Hyderabad during 11 12 December 2001 Mobile Multimedia Broadcasting Standards Fa-Long Luo, 2008-11-06 Mobile multimedia broadcasting compasses a broad range of topics including radio propagation modulation and demodulation error control signal compression and coding transport and time slicing system on chip real time implementation in hardware software and system levels The major goal of this technology is to bring multimedia enriched contents to handheld devices such as mobile phones portable digital assistants and media players through radio transmission or internet protocol IP based broadband networks Research and development of mobile multimedia broadcasting technologies are now explosively growing and regarded as new killer applications A number of mobile multimedia broadcasting standards related to transmission compression and multiplexing now coexist and are being extensively further developed The development and implementation of mobile multimedia broadcasting systems are very challenging tasks and require the huge efforts of the related industry research and regulatory authorities so as to bring the success From an implementation design and engineering practice point of view this book aims to be the first single volume to provide a comprehensive and highly coherent treatment for multiple standards of mobile multimedia broadcasting by covering basic principles algorithms design trade off and well compared implementation system examples This book is organized into 4 parts with 22 chapters **Mathematical Modelling** Murray S. Klamkin, 1987-01-01 Mathematics of Computing Miscellaneous Modulation and Coding Alister Burr, 2001 Preface Abbreviations 1 Introduction to modulation and coding 2 Principles of linear modulation 3 Modulation for non linear systems 4 Modem design 5 Principles of FEC Coding 6 Cyclic block codes 7 Convolutional codes 8 Coded modulation 9 Modulation and coding on multipath channels 10 OFDM 11 Turbo codes Appendix 1 Finite field theory Appendix 2 The MAP algorithm *Scientific and Technical Aerospace Reports*, 1984 APCCAS ... , 2000 **Mathematical Methods and Algorithms for Signal Processing** Todd K. Moon, Wynn C. Stirling, 2000 This previously included a CD The CD contents can be accessed via World Wide Web **2003 IEEE 58th Vehicular Technology Conference** IEEE Vehicular Technology Society Staff, 2004 **Tutorial** Bill D. Carroll, 1987 **Conference Record**, 2003 Error Control Systems for Digital Communication and Storage Stephen B. Wicker, 1995 For introductory graduate courses in coding for telecommunications engineering digital communications This introductory text on error control coding focuses on key implementation issues and performance analysis with applications valuable to both mathematicians and engineers Electrical Performance of Electronic Packaging, 2003 **Proceedings of International Computer Symposium**, 1986 IEEE Symposium on FPGAs for Custom Computing Machines Kenneth L.

Pocek, Jeffrey M. Arnold, 1996 Contains papers from the April 1996 symposium reporting on research in device architectures applications compilers and related software support Topics include using MORRPH in an industrial machine vision system a software development system for FPGA based data acquisition systems a reconfigura **Proceedings**, 1996 *Still-image Compression*, 1996 **Still-Image Compression** Robert L. Stevenson, Alexander I. Drukarev, Thomas R. Gardos, 1996 **The Trace Operator and Generalized Goppa Codes** Albert Manuel Roseiro, 1989 *Digital Modulation and Coding* Stephen G. Wilson, 1996 Covers all important topics in digital transmission at the intuitive level of physical systems The presentation attempts to bridge the gap between communication practice and theory emphasizing the interplay between modulation and coding and their receiver counterparts KEY TOPICS Emphasizes the engineering tradeoffs in signal design energy and spectral properties of modulation choices and receiver design aspects including synchronization Presents expanded material on lattices and block coding theory and applications Reed Solomon and BCH encoding and decoding algorithms are treated at length along with applications to bandlimited Gaussian channels and fading channels

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