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# Error Control Coding



Second Edition



Shu Lin  
Daniel J. Costello, Jr.

# Error Control Coding 2nd Edition

**Shu Lin, Daniel J. Costello**



## **Error Control Coding 2nd Edition:**

**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 *A Practical Guide to Error-control Coding Using Matlab* Yuan Jiang, 2010 This practical resource provides you with a comprehensive understanding of error control coding an essential and widely applied area in modern digital communications The goal of error control coding is to encode information in such a way that even if the channel or storage medium introduces errors the receiver can correct the errors and recover the original transmitted information This book includes the most useful modern and classic codes including block Reed Solomon convolutional turbo and LDPC codes You find clear guidance on code construction decoding algorithms and error correcting performances Moreover this unique book introduces computer simulations integrally to help you master key concepts Including a companion DVD with MATLAB programs and supported with over 540 equations this hands on reference provides you with an in depth treatment of a wide range of practical implementation issues **Essentials of Error-Control Coding** Jorge Castiñeira Moreira, Patrick Guy Farrell, 2006-08-04 Rapid advances in electronic and optical technology have enabled the implementation of powerful error control codes which are now used in almost the entire range of information systems with close to optimal performance These codes and decoding methods are required for the detection and correction of the errors and erasures which inevitably occur in digital information during transmission storage and processing because of noise interference and other imperfections Error control coding is a complex novel and unfamiliar area not yet widely understood and appreciated This book sets out to provide a clear description of the essentials of the subject with comprehensive and up to date coverage of the most useful codes and their decoding algorithms A practical engineering and information technology emphasis as well as relevant background material and fundamental theoretical aspects provides an in depth guide to the essentials of Error Control Coding Provides extensive and detailed coverage of Block Cyclic BCH Reed Solomon Convolutional Turbo and Low Density Parity Check LDPC codes together with relevant aspects of Information Theory EXIT chart performance analysis for iteratively decoded error control techniques Heavily illustrated with tables diagrams graphs worked examples and exercises Invaluable companion website features slides of figures algorithm software updates and solutions to problems Offering a complete overview of Error Control Coding this book is an indispensable resource for students engineers and researchers in the areas of telecommunications engineering communication networks electronic engineering computer science information systems and technology digital signal processing and applied mathematics **Digital Communications** Mehmet Safak, 2017-01-09 This is a modern textbook on digital communications and is designed for senior undergraduate and graduate students whilst also providing a valuable reference for those working in the telecommunications industry It provides a simple and thorough access to a wide range of topics through use of figures

tables examples and problem sets The author provides an integrated approach between RF engineering and statistical theory of communications Intuitive explanations of the theoretical and practical aspects of telecommunications help the reader to acquire a deeper understanding of the topics The book covers the fundamentals of antennas channel modelling receiver system noise A/D conversion of signals PCM baseband transmission optimum receiver modulation techniques error control coding OFDM fading channels diversity and combining techniques MIMO systems and cooperative communications It will be an essential reference for all students and practitioners in the electrical engineering field

**Theory and Practice of Error Control Codes** Richard E. Blahut, 1983

**Communications Technology Handbook** Geoff Lewis, 2013-04-03 This is the first point of reference for the communications industries It offers an introduction to a wide range of topics and concepts encountered in the field of communications technology Whether you are looking for a simple explanation or need to go into a subject in more depth the Communications Technology Handbook provides all the information you need in one single volume This second edition has been updated to include the latest technology including Video on Demand Wire less Distribution systems High speed data transmission over telephone lines Smart cards and batteries Global positioning Systems The contents are ordered initially by communications systems This is followed by an introduction to each topic and goes on to provide more detailed information in alphabetical order Every section contains an explanation of common terminology and further references are provided This approach offers flexible access to information for a variety of readers Those who know little about communications professionals the book constitutes a handy reference source and a way of finding out about related technologies The book addresses an international audience by referring to all systems and standards throughout This book has been revised to include new sections on Video on demand Wire less distribution systems High speed data transmission over telephone lines Smart cards Global positioning systems provides a basic understanding of a wide range of topics offers a flexible approach for beginners and specialists alike addresses an international audience by referring to all systems and standards throughout

*Digital Transmission* Dayan Adionel Guimaraes, 2010-01-18 *Digital Transmission A Simulation Aided Introduction with VisSim Comm* is a book in which basic principles of digital communication mainly pertaining to the physical layer are emphasized Nevertheless these principles can serve as the fundamentals that will help the reader to understand more advanced topics and the associated technology In this book each topic is addressed in two different and complementary ways theoretically and by simulation The theoretical approach encompasses common subjects covering principles of digital transmission like notions of probability and stochastic processes signals and systems baseband and passband signaling signal space representation spread spectrum multi carrier and ultra wideband transmission carrier and symbol timing recovery information theory and error correcting codes The simulation approach revisits the same subjects focusing on the capabilities of the communication system simulation software VisSim Comm on helping the reader to fulfill the gap between the theory and its practical meaning The presentation of the theory is made easier with the help of

357 illustrations A total of 101 simulation files supplied in the accompanying CD support the simulation oriented approach A full evaluation version and a viewer only version of VisSim Comm are also supplied in the CD

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Peter Sweeney,2002-04-29 Error Control Coding From Theory to Practice provides a concise introduction to basic coding techniques and their application The fundamental concepts of coding theory are explained using simple examples with minimum use of complex mathematical tools The selection of appropriate codes and the design of decoders are discussed Bridging the gap between digital communications and information theory this accessible approach will appeal to students and practising engineers alike The clear presentation and practical emphasis make this book an excellent tool for both communications and electronic engineering students Practitioners new to the field will find this text an essential guide to coding Features include End of chapter problems to test and develop the readers understanding of the most popular codes and decoding methods Finite field arithmetic and algebraic decoding methods for BCH and Reed Solomon codes Detailed coverage of Viterbi decoding and related implementation issues Turbo codes and related code types including Gallager codes and turbo product codes Practical examples of MAP and SOVA decoding for turbo codes

**SAFECOMP '93** Janusz Gorski,2012-12-06 The safe operation of computer systems continues to be a key issue in many applications where people environment investment or goodwill can be at risk Such applications include medical railways power generation and distribution road transportation aerospace process industries mining military and many others This book represents the proceedings of the 12th International Conference on Computer Safety Reliability and Security held in Poznan Poland 27 29 October 1993 The conference reviews the state of the art experiences and new trends in the areas of computer safety reliability and security It forms a platform for technology transfer between academia industry and research institutions In an expanding world wide market for safe secure and reliable computer systems SAFECOMP 93 provides an opportunity for technical developers users and legislators to exchange and review the experience to consider the best technologies now available and to identify the skills and technologies required for the future The papers were carefully selected by the International Program Committee of the Conference The authors of the papers come from 16 different countries The subjects covered include formal methods and models safety assessment and analysis verification and validation testing reliability issues and dependable software technology computer languages for safety related systems reactive systems technology security and safety related applications As to its wide international coverage unique way of combining participants from academia research and industry and topical coverage SAFECOMP is outstanding among the other related events in the field

*Introduction to Error Control Codes* Salvatore Gravano,2001 This textbook provides a firm foundation for those studying the field of error control codes giving step by step instruction on this complex topic beginning with single parity code checks and repetition codes Through these basic error control mechanisms the fundamental principles of error detection and correction minimum distance and error control limits are considered With the use of detailed examples it

guides students from basic error control codes through linear codes cyclic codes linear feedback shift registers vector fields Galois fields BCH codes and convolutional codes There are many detailed examples throughout the book to illustrate the principles and complex mathematical proofs are omitted where possible to keep the text concise and easy to follow

**Handbook of Algebra** ,1995-12-18 Handbook of Algebra defines algebra as consisting of many different ideas concepts and results Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information Each chapter of the book combines some of the features of both a graduate level textbook and a research level survey This book is divided into eight sections Section 1A focuses on linear algebra and discusses such concepts as matrix functions and equations and random matrices Section 1B cover linear dependence and discusses matroids Section 1D focuses on fields Galois Theory and algebraic number theory Section 1F tackles generalizations of fields and related objects Section 2A focuses on category theory including the topos theory and categorical structures Section 2B discusses homological algebra cohomology and cohomological methods in algebra Section 3A focuses on commutative rings and algebras Finally Section 3B focuses on associative rings and algebras This book will be of interest to mathematicians logicians and computer scientists Annales des télécommunications ,2005-07 Computer Books and Serials in Print ,1985 **Handbook of Applicable Mathematics, Combinatorics and Geometry** Walter Ledermann,Steven Vajda,1985 Volume 5 Proceedings ,1993 **Scientific and Technical Books and Serials in Print** ,1984 **Mu'tah lil-buḥūth wa-al-dirāsāt** ,1991 Coding and Information Theory Richard Wesley Hamming,1986 Focusing on both theory and practical applications this volume combines in a natural way the two major aspects of information representation representation for storage coding theory and representation for transmission information theory *1993 International Symposium on Communications* ,1993 *Codes for Detecting and Correcting Unidirectional Errors* Mario Blaum,1993

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