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Error Control Coding



Second Edition



**Shu Lin
Daniel J. Costello, Jr.**

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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 **Fundamentals of Classical and Modern Error-Correcting Codes** Shu Lin,Juane Li,2021-12-09 An accessible textbook that uses step by step explanations relatively easy mathematics and numerous examples to aid student understanding Scientific and Technical Aerospace Reports ,1985 Monthly Catalog of United States Government Publications ,1990 British Books in Print ,1985 Computer Books and Serials in Print ,1984 **Books in Print Supplement** ,2002 **Japanese Technical Abstracts** ,1987 Index to IEEE Periodicals Institute of Electrical and Electronics Engineers,1972 **Fundamentals of Classical and Modern Error-correcting Codes** Shu Lin,Juane Li,2021 Using easy to follow mathematics this textbook provides comprehensive coverage of block codes and techniques for reliable communications and data storage It covers major code designs and constructions from geometric algebraic and graph theoretic points of view decoding algorithms error control additive white Gaussian noise AWGN and erasure and dataless recovery It simplifies a highly mathematical subject to a level that can be understood and applied with a minimum background in mathematics provides step by step explanation of all covered topics both fundamental and advanced and includes plenty of practical illustrative examples to assist understanding Numerous homework problems are included to strengthen student comprehension of new and abstract concepts and a solutions manual is available online for instructors Modern developments including polar codes are also covered An essential textbook for senior undergraduates and graduates taking introductory coding courses students taking advanced full year graduate coding courses and professionals working on coding for communications and data storage **An Introduction to Error-correcting Codes** Shu Lin,1970 American Doctoral Dissertations ,1995 **Essentials of Error-Control Coding Techniques** Hideki Imai,2014-06-28 Essentials of Error Control Coding Techniques presents error control coding techniques with an emphasis on the most recent applications It is written for engineers who use or build error control coding equipment Many examples of practical applications are provided enabling the reader to obtain valuable expertise for the development of a wide range of error control coding systems Necessary background knowledge of coding theory the theory of error correcting codes is also included so that the reader is able to assimilate the concepts and the techniques The book is divided into two parts The first provides the reader with the fundamental knowledge of the coding theory that is necessary to understand the material in the latter part Topics covered include the principles of error detection and correction block codes and convolutional codes The second part is devoted to the practical applications of error control coding in various fields It explains how to design cost effective error control coding systems Many examples of actual error control coding systems are described and evaluated This book is particularly suited for the engineer striving to master the practical applications of error control coding It is also

suitable for use as a graduate text for an advanced course in coding theory **Error Control Coding** 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 **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 **Error Control Coding** Peter Sweeney,1991 **Error Control Coding** ,2000 [A Cascaded Coding Scheme for Error Control and Its Performance Analysis](#) Shu Lin,1986 [Cascaded Coding Scheme for Error Control and Its Performance Analysis](#) Shu Lin,1986 [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

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