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Introduction to
**Error Control
Codes**

SOUTH ASIA EDITION

Salvatore Gravano

Gravano For Error Control Coding Buk

Hideki Imai



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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 *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

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

Theory and Practice of Error Control Codes Richard E. Blahut, 1983 **Error Control Coding**, 2000 [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,1991-01-01 [Error-Control Coding for Data Networks](#) Irving S. Reed,Xuemin Chen,2012-12-06 The purpose of Error Control Coding for Data Networks is to provide an accessible and comprehensive overview of the fundamental techniques and practical applications of the error control coding needed by students and engineers An additional purpose of the book is to acquaint the reader with the analytical techniques used to design an error control coding system for many new applications in data networks Error control coding is a field in which elegant theory was motivated by practical problems so that it often leads to important useful advances Claude Shannon in 1948 proved the existence of error control codes that under suitable conditions and at rates less than channel capacity would transmit error free information for all practical applications The first practical binary codes were introduced by Richard Hamming and Marcel Golay from which the drama and excitement have infused researchers and engineers in digital communication and error control coding for more than fifty years Nowadays error control codes are being used in almost all modem digital electronic systems and data networks Not only is coding equipment being implemented to increase the energy and bandwidth efficiency of communication systems but coding also provides innovative solutions to many related data networking problems

The Theory of Error-correcting Codes F. J. Macwilliams,1988 **Error-Control Techniques for Digital Communication** Arnold M. Michelson,Allen H. Levesque,1985-02-12 This practical handbook provides communication systems engineers with guidance in the application of error control coding It emphasizes the fundamental concepts of coding theory while minimizing the use of mathematical tools demonstrates the role of coding in communication system design shows the performance gains achievable with coding illustrates how codes should be used and how to select the right code parameters discusses the decoding techniques that should be considered and how they are implemented and examines how detailed performance results are obtained

Multiple-valued Error Control Coding Kam Chuen Lau,1987 Abstract **Codes for Error Detection** Torleiv Klove,2007 There are two basic methods of error control for communication both involving coding of the messages With forward error correction the codes are used to detect and correct errors In a repeat request system the codes are used to detect errors and if there are errors request a retransmission Error detection is usually much simpler to implement than error correction and is widely used However it is given a very cursory treatment in almost all textbooks on coding theory Only a few older books are devoted to error detecting codes This book begins with a short introduction to the theory of block codes with emphasis on the parts important for error detection The weight distribution is particularly important for this application and is treated in more detail than in most books on error correction A detailed account of the known results on the probability of undetected error on the q ary symmetric channel is also given

Error-control Coding and

Applications Djimitri Wiggert,1978 *The Theory of Error-correcting Codes* Florence Jessie MacWilliams,Neil James Alexander Sloane,1977 **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 *On Error-control Coding for Data Reliability and Security* Chang-Seop Park,1990 **ERROR CORRECTING CODING THEORY (NINE) SC** Man Young Rhee,1989

Error-Control Coding for Computer Systems Prentice Hall PTR,1991-01-01 *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 [Error-correcting Codes](#) John Baylis,2003

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