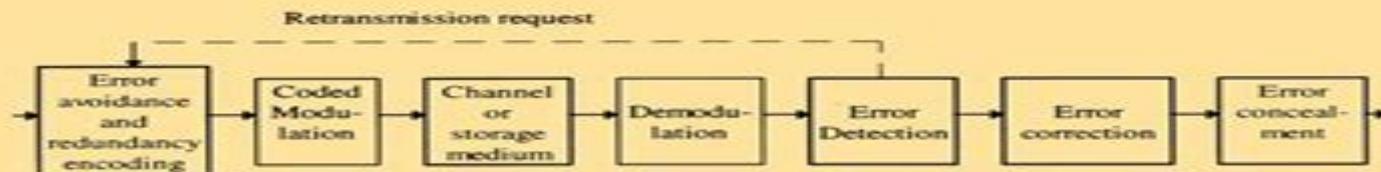


ERROR-CONTROL CODING FOR DATA NETWORKS

Irving S. Reed
Xuemin Chen



Error Control Coding For Data Networks

LL Leslie



Error Control Coding For Data Networks:

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 modern 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

Error Correcting Coding and Security for Data Networks Grigorii Kabatiansky, Evgenii Krouk, Sergei Semenov, 2005-10-31 Error correcting coding is often analyzed in terms of its application to the separate levels within the data network in isolation from each other In this fresh approach the authors consider the data network as a superchannel a multi layered entity which allows error correcting coding to be evaluated as it is applied to a number of network layers as a whole By exposing the problems of applying error correcting coding in data networks and by discussing coding theory and its applications this original technique shows how to correct errors in the network through joint coding at different network layers Discusses the problem of reconciling coding applied to different layers using a superchannel approach Includes thorough coverage of all the key codes linear block codes Hamming BCH and Reed Solomon codes LDPC codes decoding as well as convolutional turbo and iterative coding Considers new areas of application of error correcting codes such as transport coding code based cryptosystems and coding for image compression Demonstrates how to use error correcting coding to control such important data characteristics as mean message delay Provides theoretical explanations backed up by numerous real world examples and practical recommendations Features a companion website containing additional research results including new constructions of LDPC codes joint error control coding and synchronization Reed Muller codes and their list decoding By progressing from theory through to practical problem solving this resource contains invaluable advice for researchers postgraduate students engineers and computer scientists interested in data communications and applications of 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

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

Designing 2D and 3D Network-on-Chip Architectures Konstantinos Tatas, Kostas Siozios, Dimitrios Soudris, Axel Jantsch, 2013-10-08 This book covers key concepts in the design of 2D and 3D Network on Chip interconnect It highlights design challenges and discusses fundamentals of NoC technology including architectures algorithms and tools Coverage focuses on topology exploration for both 2D and 3D NoCs routing algorithms NoC router design NoC based system integration verification and testing and NoC reliability Case studies are used to illuminate new design methodologies

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

Digital Transmission Systems and Networks: Principles Michael J. Miller, Syed V. Ahamed, 1988

Proceedings of the 1975 IEEE-USSR Joint Workshop on Information Theory, December 15-19, 1975, Moscow, USSR, 1976

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

Telecommunications Engineer's Reference Book Fraidoon Mazda, 2014-06-28 Telecommunications Engineer's Reference Book maintains a balance between developments and established technology in telecommunications This book consists of four parts Part 1 introduces mathematical techniques that are required for the analysis of telecommunication systems The physical environment of telecommunications and basic principles such as the teletraffic theory electromagnetic waves optics and vision ionosphere and troposphere and signals and noise are described in Part 2 Part 3 covers the political and regulatory environment of the telecommunications industry telecommunication standards open system interconnect reference model multiple access techniques and network management The last part deliberates telecommunication applications that includes synchronous digital hierarchy asynchronous transfer mode integrated services digital network switching systems centrex and call management This publication is intended for practicing engineers and as a supplementary text for undergraduate courses in telecommunications

Digital Transmission Systems and Networks: Applications Michael J. Miller, 1987 **Data Networks** Uyless D. Black, 1989 Proceedings of the IEEE-USSR Joint Workshop on Information Theory, 1975 *Wireless Network Coexistence* Robert K. Morrow, 2004 The book deals with the integration and practical applications of the entire gamut of wireless services including Wi Fi Wi Media ZigBee and Bluetooth It discusses what each of the services has to offer what can be accomplished with each and how each fits into an integrated wireless solution

Data Communications, Computer Networks, and Open Systems Fred Halsall, 1992 The long awaited revision of Halsall's bestselling introduction to data communications networks and open systems In addition to completely revising the material on networking networking management and open distributed processing application protocols have been expanded to include MHS X400 VT EDI and X500 *IEEE International Symposium on Information Theory*, 1994 **IEEE Proceedings of the Southeastcon**, 1991 *Proceedings Nineteen Ninety-Four IEEE International Symposium on Information Theory* IEEE Information Theory Society, 1994 **Proceedings** IEEE Information Theory Society, 1994 *Journal of Electrical and Electronics Engineering, Australia*, 1986

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