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Essentials of Error-Control Coding Techniques Error-Control Coding for Data Networks Error Control for Network-on-Chip Links Transient and Permanent Error Control for Networks-on-Chip Error Control Methods for an Automatic Checkout System A Practical Guide to Error-control Coding Using Matlab Codes for Error Detection Practical Error Correction Design for Engineers Error Correction Coding Error-Control Techniques for Digital Communication Error Control Coding Codes for Error Control and Synchronization Introduction to Error Control Codes Error Control Coding Error Control Coding Theory and Practice of Error Control Codes New Bounds and Constructions for Error Control Codes Error Control Through Coding. Volume I. Summary of Results Selected Papers ...: Theory of sound Proceedings of the ACM. *Hideki Imai Irving S. Reed Bo Fu Qiaoyan Yu Theodore S. Lewis Yuan Jiang Torleiv Kløve Todd K. Moon Arnold M. Michelson Peter Sweeney Djimitri Wiggert Salvatore Gravano Shu Lin Peter Sweeney Richard E. Blahut Nasir Ali Al-darwish INTERNATIONAL BUSINESS MACHINES CORP BETHESDA MD. Association for Computing Machinery. Conference*

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

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

this book provides readers with a comprehensive review of the state of the art in error control for

network on chip noc links coverage includes detailed description of key issues in noc error control faced by circuit and system designers as well as practical error control techniques to minimize the impact of these errors on system performance

this book addresses reliability and energy efficiency of on chip networks using cooperative error control it describes an efficient way to construct an adaptive error control codec capable of tracking noise conditions and adjusting the error correction strength at runtime methods are also presented to tackle joint transient and permanent error correction exploiting the redundant resources already available on chip a parallel and flexible network simulator is also introduced which facilitates examining the impact of various error control methods on network on chip performance

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

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

providing in depth treatment of error correction error correction coding mathematical methods and algorithms 2nd edition provides a comprehensive introduction to classical and modern methods of error correction the presentation provides a clear practical introduction to using a lab oriented approach readers are encouraged to implement the encoding and decoding algorithms with explicit algorithm statements and the mathematics used in error correction balanced with an algorithmic development on how to actually do the encoding and decoding both block and stream convolutional codes are discussed and the mathematics required to understand them are introduced on a just in time basis as the reader progresses through the book the second edition increases the impact and reach of the book updating it to discuss recent important technological advances new material includes extensive coverage of ldpc codes including a variety of decoding algorithms a comprehensive introduction to polar codes including systematic encoding decoding and list decoding an introduction to fountain codes modern applications to systems such as hdtv dvbt2 and cell phones error correction coding includes extensive program files for example c code for all ldpc decoders and polar code decoders laboratory materials for students to implement algorithms and an updated solutions manual all of which are perfect to help the reader understand and retain the content the book covers classical bch reed solomon golay reed muller hamming and convolutional codes which are still component codes in virtually every modern communication system there are also fulsome discussions of recently developed polar codes and fountain codes that serve to educate the reader on the newest developments in error correction

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

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 arithematic 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

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

for a first course on coding theory at the senior or beginning graduate level a reorganized and comprehensive major revision of a classic textbook this text provides a bridge between introductory courses in digital communications and more advanced courses in information theory completely updated to cover the latest developments it presents state of the art error control techniques

the bulk of the theory on error control codes has been developed under the fault assumption of random symmetric errors where 1 0 and 0 1 errors are equally likely in the past few years several applications have emerged in which the observed errors are highly asymmetric this has prompted the study of codes that offer a combination of symmetric and asymmetric error control capabilities this research is a part of this ongoing study the main results of the research are listed below 1 new upper bounds on t unordered codes exact bounds are established in some cases 2 a new method for constructing constant weight distance four codes that gives the best known bounds in several cases 3

a new method for constructing single asymmetric error correcting codes the method establishes several new lower bounds 4 a construction for symmetric error correcting code the code is suited for a photon channel and other highly asymmetric channels because it has far fewer 1 s than 0 s the code uses one extra bit of redundancy over the bch code in almost all cases and it is relatively easy to encode and decode 5 a new construction for systematic double asymmetric error correcting code the resulting code is easier to decode than the bch code and is optimal in several cases the code has fewer 1 s than 0 s 6 a new construction for double symmetric error correcting linear code the resulting code is easier to decode than the bch code and is optimal in several cases 7 a new construction for linear codes the construction yields best known codes in many cases

the research was primarily devoted to the application of error control techniques this discipline has developed a body of knowledge that can be extremely valuable to communication systems designers if criteria for the use of error control coding can be developed the work included an analysis of channel statistics that leads to a computer program designed to choose an optimum error control technique from standard channel statistics and data transmission parameters variable length variable redundancy codes and their applications were studied comparisons of block and recurrent codes were made in addition a study was made of error propagation in recurrent codes a cyclic decoding procedure for the familiar bose chaudhurihocquenghem code was developed comparisons were made between forward error correction codes and error detection codes with feedback and retransmission with data throughput rate the criterion for comparison finally a technique for combining error detection with message synchronization is described author

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