THEORY AND PRACTICE OF ERROR CONTROL CODES

Richard E. Blahut

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IEEE Computer Society. Fault-Tolerant Computing Technical Committee

Theory And Practice Of Error Control Codes:

Theory and Practice of Error Control Codes Richard E. Blahut,1983 *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 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 *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** Shu Lin,Daniel J. Costello,1983 Completely updated to cover latest developments this text provides a bridge between introductory courses in digitial communications and more advanced courses in information technology It presents state of the art control techniques **Error Correction Codes for Non-Volatile Memories** Rino Micheloni,A. Marelli,R. Ravasio,2008-06-03 Nowadays it is hard to find an electronic device which does not use codes for example we listen to music via heavily encoded audio CD s and we watch movies via encoded DVD s There is at least one area where the use of encoding decoding is not so developed yet Flash non volatile memories Flash memory high density low power cost effectiveness and scalable design make it an ideal choice to fuel the explosion of multimedia products like USB keys MP3 players digital

cameras and solid state disk In ECC for Non Volatile Memories the authors expose the basics of coding theory needed to understand the application to memories as well as the relevant design topics with reference to both NOR and NAND Flash architectures A collection of software routines is also included for better understanding The authors form a research group now at Qimonda which is the typical example of a fruitful collaboration between mathematicians and engineers

Information Theory and Coding - Solved Problems Predrag Ivaniš,Dušan Drajić,2016-11-29 This book is offers a comprehensive overview of information theory and error control coding using a different approach then in existed literature The chapters are organized according to the Shannon system model where one block affects the others A relatively brief theoretical introduction is provided at the beginning of every chapter including a few additional examples and explanations but without any proofs And a short overview of some aspects of abstract algebra is given at the end of the corresponding chapters The characteristic complex examples with a lot of illustrations and tables are chosen to provide detailed insights into the nature of the problem Some limiting cases are presented to illustrate the connections with the theoretical bounds The numerical values are carefully selected to provide in depth explanations of the described algorithms Although the examples in the different chapters can be considered separately they are mutually connected and the conclusions for one considered problem relate to the others in the book   **Error Correction Coding** Todd K. Moon,2020-12-15 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   **Algebraic Coding Theory and Applications** Carlos R. P. Hartmann,Giuseppe Longo,2013-12-19   **Coding Theory in**

Optical Wireless Communication Systems Xizheng Ke,2024-08-19 This book focuses on optical wireless communication systems It summarizes the author s optical wireless communication coding work while carrying out pertinent scientific research programs The primary topics covered in the book are channel coding coding modulation error control channel coding and channel equalization The author s mathematical analysis and experimental studies on the key theoretical issues are discussed in the book One of the book s outstanding aspects is its thorough and methodical discussion of practical optical wireless communication challenges This makes the book especially appealing to readers who are eager to learn about applicable solutions in this area Researchers engineers and graduate students in the subject of telecommunications can all profit from the book It is appropriate for senior undergraduates lecturers at colleges and universities graduate students and engineering and technical workers involved in optical communication **Code Design for Dependable Systems** Eiji Fujiwara,2006-07-21 Theoretical and practical tools to master matrix code design strategy and technique Error correcting and detecting codes are essential to improving system reliability and have popularly been applied to computer systems and communication systems Coding theory has been studied mainly using the code generator polynomials hence the codes are sometimes called polynomial codes On the other hand the codes designed by parity check matrices are referred to in this book as matrix codes This timely book focuses on the design theory for matrix codes and their practical applications for the improvement of system reliability As the author effectively demonstrates matrix codes are far more flexible than polynomial codes as they are capable of expressing various types of code functions In contrast to other coding theory publications this one does not burden its readers with unnecessary polynomial algebra but rather focuses on the essentials needed to understand and take full advantage of matrix code constructions and designs Readers are presented with a full array of theoretical and practical tools to master the fine points of matrix code design strategy and technique Code designs are presented in relation to practical applications such as high speed semiconductor memories mass memories of disks and tapes logic circuits and systems data entry systems and distributed storage systems New classes of matrix codes such as error locating codes spotty byte error control codes and unequal error control codes are introduced along with their applications A new parallel decoding algorithm of the burst error control codes is demonstrated In addition to the treatment of matrix codes the author provides readers with a general overview of the latest developments and advances in the field of code design Examples figures and exercises are fully provided in each chapter to illustrate concepts and engage the reader in designing actual code and solving real problems The matrix codes presented with practical parameter settings will be very useful for practicing engineers and researchers References lead to additional material so readers can explore advanced topics in depth Engineers researchers and designers involved in dependable system design and code design research will find the unique focus and perspective of this practical guide and reference helpful in finding solutions to many key industry problems It also can serve as a coursebook for graduate and advanced undergraduate students **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 *Error Control Coding* Peter Sweeney,1991 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 Channel Coding to Exploit Soft-decisions and Error-dependence in Channels with Memory Michael S. McKinley,1992 **Error-correcting Coding Theory** Man Young Rhee,1989 **Conference Proceedings** ,2004 **Proceedings** IEEE Computer Society. Fault-Tolerant Computing Technical Committee,2000 Proceedings of the June 2000 conference that addressed society s unprecedented reliance on the dependability integrity security and availability of a global network of computing systems The 66 contributions cover embedded systems measurement and assessment mobile agents analysis and evaluatio

Computational Complexity of Bilinear Forms Hari Krishna,1987 Joint Source-Channel Decoding Pierre Duhamel,Michel Kieffer,2010-01-07 Gives the tools to develop applications in video broadcasting with the improved quality of service offered by joint source channel decoding **Digital Transmission Engineering** John B. Anderson,1999 This introduction to digital data transmission modulation and error correction coding together with the underlying communication and information theory is an all inclusive text suitable for all those connected with Mechanical Engineering or Computer Science Equal emphasis is given to underlying mathematical theory and engineering practice Not meant to be an encyclopedic treatise the book offers strong accessible pedagogy This Second Edition presents enhanced explanations of key ideas as well as additional examples and problems It also provides greatly expanded coverage of wireless communication which has seen exponential growth since the release of the first edition A pedagogocal approach aimed at the 5th year EE student A balance of theory with engineering and design Integration of important topics such as synchronization radio

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