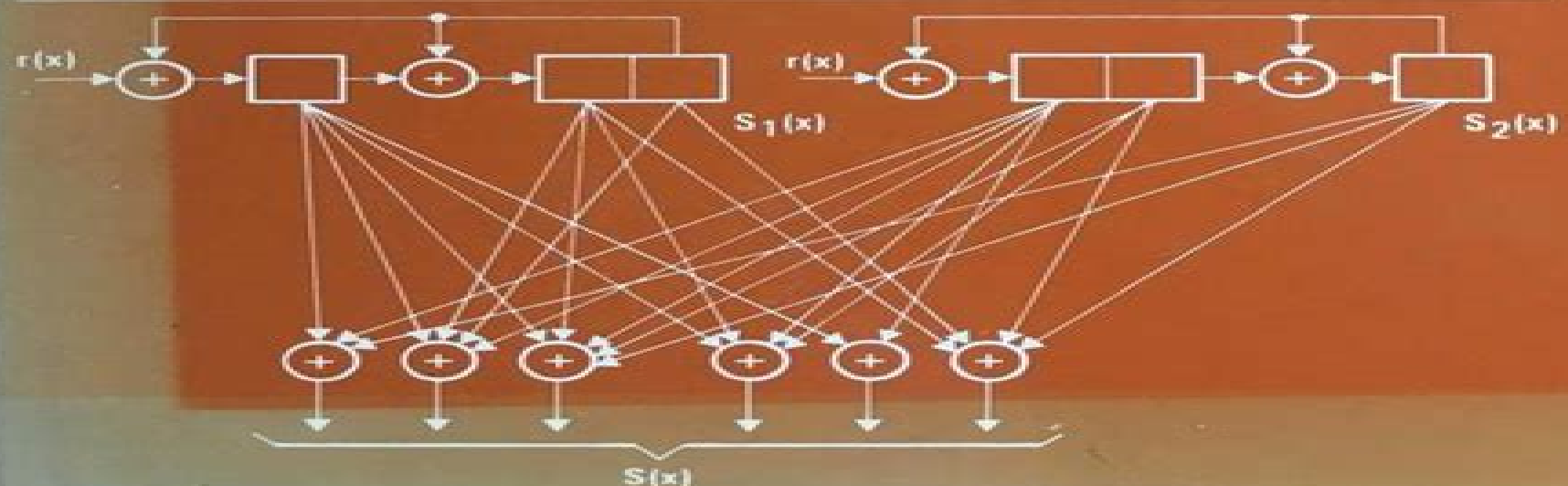


Error-Correction Coding for Digital Communications

George C. Clark, Jr., and J. Bibb Cain



Error Correction Coding For Digital Communications

Todd K. Moon



Error Correction Coding For Digital Communications:

Error-correction coding for digital communications George Cyril Clark,J. Bibb Cain,1988 *Error-Correction Coding for Digital Communications* George C. Clark Jr.,J. Bibb Cain,2013-06-29 Error correction coding is being used on an almost routine basis in most new communication systems Not only is coding equipment being used to increase the energy efficiency of communication links but coding ideas are also providing innovative solutions to many related communication problems Among these are the elimination of intersymbol interference caused by filtering and multipath and the improved demodulation of certain frequency modulated signals by taking advantage of the natural coding provided by a continuous phase Although several books and numerous articles have been written on coding theory there are still noticeable deficiencies First the practical aspects of translating a specific decoding algorithm into actual hardware have been largely ignored The information that is available is sketchy and is widely dispersed Second the information required to evaluate a particular technique under situations that are encountered in practice is available for the most part only in private company reports This book is aimed at correcting both of these problems It is written for the design engineer who must build the coding and decoding equipment and for the communication system engineer who must incorporate this equipment into a system It is also suitable as a senior level or first year graduate text for an introductory one semester course in coding theory The book Uses a minimum of mathematics and entirely avoids the classical theorem proof approach that is often seen in coding texts *Error-Correction Coding for Digital Communications* George C. Clark Jr,J. Bibb Cain,2014-01-15 *Error Correction Coding for Digital Communications* Choon Boon Ng,Wee Seong Cheah,1996 **Error-Correction Coding and Decoding** Martin Tomlinson,Cen Jung Tjhai,Marcel A. Ambroze,Mohammed Ahmed,Mubarak Jibril,2017-02-21 This book discusses both the theory and practical applications of self correcting data commonly known as error correcting codes The applications included demonstrate the importance of these codes in a wide range of everyday technologies from smartphones to secure communications and transactions Written in a readily understandable style the book presents the authors twenty five years of research organized into five parts Part I is concerned with the theoretical performance attainable by using error correcting codes to achieve communications efficiency in digital communications systems Part II explores the construction of error correcting codes and explains the different families of codes and how they are designed Techniques are described for producing the very best codes Part III addresses the analysis of low density parity check LDPC codes primarily to calculate their stopping sets and low weight codeword spectrum which determines the performance of these codes Part IV deals with decoders designed to realize optimum performance Part V describes applications which include combined error correction and detection public key cryptography using Goppa codes correcting errors in passwords and watermarking This book is a valuable resource for anyone interested in error correcting codes and their applications ranging from non experts to professionals at the forefront of research in their field This book is open access under a CC BY 4.0 license *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 Correction Coding* Todd K. Moon, 2020-12-22 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

Error-Correction Coding and Decoding Mohammed Ahmed, Marcel a Ambroze, Mubarak Jibril, 2020-10-08 This book discusses both the theory and practical applications of self correcting data commonly known as error correcting codes The applications included demonstrate the importance of these codes in a wide range of everyday technologies from smartphones to secure communications and transactions Written in a readily understandable style the book presents the authors twenty five years of research organized into five parts Part I is concerned with the theoretical performance attainable by using error correcting codes to achieve communications efficiency in digital communications systems Part II explores the construction of error correcting codes and explains the different families of codes and how they are designed Techniques are described for producing the very best codes Part III addresses the analysis of low density parity check LDPC codes primarily to calculate their stopping sets and low weight codeword spectrum which determines the performance of these codes Part IV deals with decoders designed to realize optimum performance Part V describes applications which include combined error correction and detection public key cryptography using Goppa codes correcting errors in passwords and watermarking This book is a valuable resource for anyone interested in error correcting

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DIGITAL COMMUNICATION SYSTEMS DESIGN
Othman Omran Khalifa,2025-04-02 This century is the digital era where digital information plays a key role in our daily lives The digital communication industry is enormous and rapidly growing roughly comparable in size to the computer industry However the tremendous growth of computing power in terms of speed memory capacity and the intervention of artificial intelligence machine deep learning algorithms as well as the Internet of Things IoT introduced a variety of digital processing applications This book follows a holistic approach and presents the theory and application of the design philosophy of the subject digital communication systems Developers should be able to solve problems with innovation creativity and active initiators of novel ideas However learning and teaching have changed from conventional education to outcome based education

Introduction to Digital Communication Systems Krzysztof Wesolowski,2009-07-31 Combining theoretical knowledge and practical applications this advanced level textbook covers the most important aspects of contemporary digital communication systems Introduction to Digital Communication Systems focuses on the rules of functioning digital communication system blocks starting with the performance limits set by the information theory Drawing on information relating to turbo codes and LDPC codes the text presents the basic methods of error correction and detection followed by baseband transmission methods and single and multi carrier digital modulations The basic properties of several physical communication channels used in digital communication systems are explained showing the transmission and reception methods on channels suffering from intersymbol interference The text also describes the most recent developments in the transmission techniques specific to wireless communications used both in wireline and wireless systems The case studies are a unique feature of this book illustrating elements of the theory developed in each chapter Introduction to Digital Communication Systems provides a concise approach to digital communications with practical examples and problems to supplement the text There is also a companion website featuring an instructors solutions manual and presentation slides to aid understanding Offers theoretical and practical knowledge in a self contained textbook on digital communications Explains basic rules of recent achievements in digital communication systems such as MIMO turbo codes LDPC codes OFDMA SC FDMA Provides problems at the end of each chapter with an instructors solutions manual on the companion website Includes case studies and representative communication system examples such as DVB S GSM UMTS 3GPP LTE

Error Correction Coding Todd K. Moon,2005-06-06 An unparalleled learning tool and guide to error correction coding Error correction coding techniques allow the detection and correction of errors occurring during the transmission of data in digital communication systems These techniques are nearly universally employed in modern communication systems and are thus an important component of the modern information economy Error Correction Coding Mathematical Methods and Algorithms provides a

comprehensive introduction to both the theoretical and practical aspects of error correction coding with a presentation suitable for a wide variety of audiences including graduate students in electrical engineering mathematics or computer science The pedagogy is arranged so that the mathematical concepts are presented incrementally followed immediately by applications to coding A large number of exercises expand and deepen students understanding A unique feature of the book is a set of programming laboratories supplemented with over 250 programs and functions on an associated Web site which provides hands on experience and a better understanding of the material These laboratories lead students through the implementation and evaluation of Hamming codes CRC codes BCH and R S codes convolutional codes turbo codes and LDPC codes This text offers both classical coding theory such as Hamming BCH Reed Solomon Reed Muller and convolutional codes as well as modern codes and decoding methods including turbo codes LDPC codes repeat accumulate codes space time codes factor graphs soft decision decoding Guruswami Sudan decoding EXIT charts and iterative decoding Theoretical complements on performance and bounds are presented Coding is also put into its communications and information theoretic context and connections are drawn to public key cryptosystems Ideal as a classroom resource and a professional reference this thorough guide will benefit electrical and computer engineers mathematicians students researchers and scientists

Digital Communications Over Fading Channels R. Clark Robertson, Nathan E. Belz, Naval Postgraduate School (U.S.), 2004-11-01 In this report the probabilities of bit error for the most commonly used digital modulation techniques are analyzed Analytic solutions are developed for the probability of bit error when the signal is affected by the most commonly encountered impairment to system performance for a wireless channel the transmission of the signal over a fading channel In this report the effect of a slow flat Ricean fading channel on communications systems performance is examined Since channel fading significantly degrades the performance of a communication system the performance of digital communication systems that also use forward error correction channel coding is analyzed for hard decision decoding and where appropriate for soft decision decoding Diversity another technique to mitigate the effect of fading channels on digital communication systems performance is also discussed Also included is a discussion of the effect of narrowband noise interference both continuous and pulsed on digital communication systems We then discuss the analysis of the probability of bit error for the combination of error correction coding and diversity Following this we briefly discuss spread spectrum systems Next we examine the link budget analysis and various models for channel loss Finally we examine in detail the second generation digital wireless standard Global System for Mobile GSM

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 **Digital Communications** Bernard Sklar, 1988 A comprehensive examination of digital communication systems and signal processing techniques *Digital Communication Techniques* Marvin Kenneth Simon, Sami M. Hinedi, William C. Lindsey, 1995 Written by internationally recognized leaders in the field this volume presents complete comprehensive and modern coverage of the theory and practice of signal design and detection in digital communications Based on the authors vast industrial experience it explores the basics as well as the state of the art developments in both modulation and detection **Digital Video Communications** Martyn J. Riley, Iain E. G. Richardson, 1997 Digital Video Communications discusses the new and emerging applications of digital video communications and introduces the key systems required to support the technology The book helps readers meet and improve QoS requirements correct transmission errors and apply rate control to coded video transmission Digital Communication Systems Peyton Z. Peebles, 1987 Digital Communication Systems University of Michigan. Engineering Summer Conferences, 1972 Digital Communications Systems North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Sensor and Propagation Panel. Symposium, 1996 *Principles of Digital Communication* J. Das, S. K. Mullick, P. K. Chatterjee, 1986

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