W. Cary Huffman and Vera Pless

Fundamentals of Error-Correcting Codes

Fundamentals Of Error Correcting Codes

Shu Lin,Daniel J. Costello

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   Fundamentals of Error-Correcting Codes W. Cary Huffman,Vera Pless,2010-02-18 Fundamentals of Error Correcting Codes is an in depth introduction to coding theory from both an engineering and mathematical viewpoint As well as covering classical topics there is much coverage of techniques which could only be found in specialist journals and book publications Numerous exercises and examples and an accessible writing style make this a lucid and effective introduction to coding theory for advanced undergraduate and graduate students researchers and engineers whether approaching the subject from a mathematical engineering or computer science background   Fundamentals Of Error-Correcting Codes Huffman,2004 Fundamentals of Error Correcting Codes is an in depth introduction to coding theory from both an engineering and mathematical viewpoint As well as covering classical topics much coverage is included of recent techniques which until now could only be found in specialist journals and book publications Numerous exercises and examples and an accessible writing style make this a lucid and effective introduction to coding theory for advanced undergraduate and graduate students researchers and engineers whether approaching the subject from a mathematical engineering or computer science background   **Fundamentals of Classical and Modern Error-Correcting Codes** Shu Lin,Juane Li,2021-12-09 Using easy to follow mathematics this textbook provides comprehensive coverage of block codes and techniques for reliable communications and data storage It covers major code designs and constructions from geometric algebraic and graph theoretic points of view decoding algorithms error control additive white Gaussian noise AWGN and erasure and dataless recovery It simplifies a highly mathematical subject to a level that can be understood and applied with a minimum background in mathematics provides step by step explanation of all covered topics both fundamental and advanced and includes plenty of practical illustrative examples to assist understanding Numerous homework problems are included to strengthen student comprehension of new and abstract concepts and a solutions manual is available online for instructors Modern developments including polar codes are also covered An essential textbook for senior undergraduates and graduates taking introductory coding courses students taking advanced full year graduate coding courses and professionals working on coding for communications and data storage   *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   **Advances in Multimedia Information Processing - PCM 2006** Yueting Zhuang,2006-10-24 This book constitutes the refereed proceedings of the 7th Pacific Rim Conference on Multimedia PCM 2006 held in Hangzhou China in November 2006 The 116 revised papers presented cover a wide range of topics including all aspects of multimedia both technical and artistic perspectives and both theoretical and practical issues   *An Introduction to Error Correcting Codes with Applications* Scott A. Vanstone,Paul C. van Oorschot,2013-04-18 5 2 Rings and Ideals 148 5 3 Ideals and Cyclic Subspaces 152 5 4 Generator Matrices and Parity

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cryptography is treated as are data compression and other topics related to information theory The definition theorem proof style used in mathematics texts is employed through the book but formalism is avoided wherever possible **Computing** Yoshihide Igarashi,Tom Altman,Mariko Funada,Barbara Kamiyama,2014-05-27 Exploring a vast array of topics related to computation Computing A Historical and Technical Perspective covers the historical and technical foundation of ancient and modern day computing The book starts with the earliest references to counting by humans introduces various number systems and discusses mathematics in early civilizations It guides readers all the way through the latest advances in computer science such as the design and analysis of computer algorithms Through historical accounts brief technical explanations and examples the book answers a host of questions including Why do humans count differently from the way current electronic computers do Why are there 24 hours in a day 60 minutes in an hour etc Who invented numbers when were they invented and why are there different kinds How do secret writings and cryptography date back to ancient civilizations Innumerable individuals from many cultures have contributed their talents and creativity to formulate what has become our mathematical and computing heritage By bringing together the historical and technical aspects of computing this book enables readers to gain a deep appreciation of the long evolutionary processes of the field developed over thousands of years Suitable as a supplement in undergraduate courses it provides a self contained historical reference source for anyone interested in this important and evolving field *Mathematical Principles of the Internet, Volume 1* Nirdosh Bhatnagar,2018-11-20 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead they cover a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering **Radio Frequency Modulation Made Easy** Saleh Faruque,2016-07-27 This book introduces Radio Frequency Modulation to a broad audience The author blends theory and practice to bring readers up to date in key concepts underlying principles and practical applications of wireless communications The presentation is designed to be easily accessible minimizing mathematics and maximizing visuals

Fault-Tolerant Systems Israel Koren,C. Mani Krishna,2010-07-19 Fault Tolerant Systems is the first book on fault tolerance design with a systems approach to both hardware and software No other text on the market takes this approach nor offers the comprehensive and up to date treatment that Koren and Krishna provide This book incorporates case studies that highlight six different computer systems with fault tolerance techniques implemented in their design A complete ancillary package is available to lecturers including online solutions manual for instructors and PowerPoint slides Students designers and architects of high performance processors will value this comprehensive overview of the field The first book on fault tolerance design with a systems approach Comprehensive coverage of both hardware and software fault tolerance as well as information and time redundancy Incorporated case studies highlight six different computer systems with fault tolerance techniques implemented in their design Available to lecturers is a complete ancillary package including online solutions manual for instructors and PowerPoint slides *Handbook of Linear Algebra* Leslie Hogben,2006-11-02 The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use handbook format The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research The book features an accessibl *Mathematical Principles of the Internet, Two Volume Set* Nirdosh Bhatnagar,2019-03-18 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead these cover only a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering *Coding Theory and Quantum Computing* David Evans,2005 A conference Coding Theory and Quantum Computing was held in Charlottesville VA to provide an opportunity for computer scientists mathematicians and physicists to interact about subjects of common interest This proceedings volume grew out of that meeting It is divided into two parts Coding Theory and Quantum Computing In the first part Harold Ward gives an introduction to coding theory Other papers survey recent important work such as coding theory applications of Grobner bases methods of computing parameters of codes

corresponding to algebraic curves and problems in the theory of designs The second part of the book covers a wide variety of directions in quantum information with an emphasis on understanding entanglement The material presented is suitable for graduate students and researchers interested in coding theory and in quantum computing **Essays on Coding Theory** Ian F. Blake,2024-03-14 Critical coding techniques have developed over the past few decades for data storage retrieval and transmission systems significantly mitigating costs for governments and corporations that maintain server systems containing large amounts of data This book surveys the basic ideas of these coding techniques which tend not to be covered in the graduate curricula including pointers to further reading Written in an informal style it avoids detailed coverage of proofs making it an ideal refresher or brief introduction for students and researchers in academia and industry who may not have the time to commit to understanding them deeply Topics covered include fountain codes designed for large file downloads LDPC and polar codes for error correction network rank metric and subspace codes for the transmission of data through networks post quantum computing and quantum error correction Readers are assumed to have taken basic courses on algebraic coding and information theory , **Fundamentals in Information Theory and Coding** Monica Borda,2011-05-27 The work introduces the fundamentals concerning the measure of discrete information the modeling of discrete sources without and with a memory as well as of channels and coding The understanding of the theoretical matter is supported by many examples One particular emphasis is put on the explanation of Genomic Coding Many examples throughout the book are chosen from this particular area and several parts of the book are devoted to this exciting implication of coding

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