



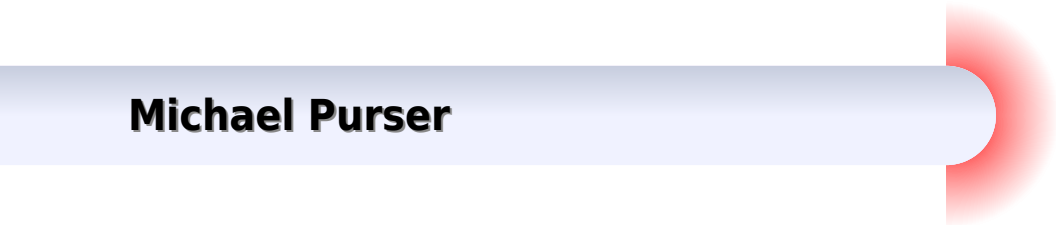
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Fundamentals of Error- Correcting Codes

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Fundamentals Of Error Correcting Codes

Michael Purser



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Selected Topics in Information and Coding Theory Isaac Woungang, 2010 Pt 1 Applications of coding theory to computational complexity ch 1 Linear complexity and related complexity measures Arne Winterhof ch 2 Lattice and construction of high coding gain lattices from codes Mohammad Reza Sadeghi ch 3 Distributed space time codes with low ML decoding complexity G. Susinder Rajan and B. Sundar Rajan pt 2 Methods of algebraic combinatorics in coding theory codes construction and existence ch 4 Coding theory and algebraic combinatorics Michael Huber ch 5 Block codes from matrix and group rings Paul Hurley and Ted Hurley ch 6 LDPC and convolutional codes from matrix and group rings Paul Hurley and Ted Hurley ch 7 Search for good linear codes in the class of quasi-cyclic and related codes Nuh Aydin and Tsvetan Asamov pt 3 Source coding channel capacity network coding ch 8 Applications of universal source coding to statistical analysis of time series Boris Ryabko ch 9 Introduction to network coding for acyclic and cyclic networks ngela I Barbero and yvind Ytrehus ch 10 Distributed joint source channel coding on a multiple access channel Vinod Sharma and R Rajesh pt 4 Other selected topics in information and coding theory ch 11 Low density parity check codes and the related performance analysis methods Xudong Ma ch 12 Variable length codes and finite automata Marie Pierre B. al und weitere ch 13 Decoding and finding the minimum distance with Gröbner Bases history and new insights Stanislav Bulygin and Ruud Pellikaan ch 14 Cooperative diversity systems for wireless communication Murat Uysal and Muhammad Mehboob Fareed ch 15 Public key cryptography and coding theory Pascal V. ron

Introduction to Error-correcting Codes Michael Purser, 1995 This title covers the fundamentals of error correcting codes for the non-specialist user from general concepts through to the most common error correcting codes applied to bit transmission in packet switched networks and personal cellular systems It also includes sections on linear block codes BCH codes and cyclic codes

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

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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 accessible

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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

Foundations of Coding Jiri Adamek, 2011-02-14 Although devoted to constructions of good codes for error control secrecy or data compression the emphasis is on the first direction Introduces a number of important classes of error detecting and error correcting codes as well as their decoding

methods Background material on modern algebra is presented where required The role of error correcting codes in modern 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 *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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