W. Cary Huffman and Vera Pless

Fundamentals of Error-Correcting Codes

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Huffman

Fundamentals Of Error Correcting Codes:

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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field developed over thousands of years Suitable as a supplement in undergraduate courses it provides a self contained historical reference source for anyone interested in this important and evolving field **Foundations of Coding** Jiri Adamek,2011-02-14 Although devoted to constructions of good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 **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 blockades BCH codes and cyclic codes **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

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 *Mathematics of Quantum Computation and Quantum Technology* Louis Kauffman,Samuel J. Lomonaco,2007-09-19 Research and development in the pioneering field of quantum computing involve just about every facet of science and engineering including the significant areas of mathematics and physics Based on the firm understanding that mathematics and physics are equal partners in the continuing study of quantum science Mathematics of Quantum Computation an *Handbook of Discrete and Combinatorial Mathematics* Kenneth H. Rosen,2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition

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