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Leading authorities deliver the commandments for designing high-speed networks There are no end of books touting the virtues of one or another high-speed networking technology, but until now, there were none offering networking professionals a framework for choosing and integrating the best ones for their organization's networking needs. Written by two world-renowned experts in the field of high-speed network design, this book outlines a total strategy for designing high-bandwidth, low-latency systems. Using real-world implementation examples to illustrate their points, the authors cover all aspects of network design, including network components, network architectures, topologies, protocols, application interactions, and more. "The Global System for Mobile Communication met with wide acceptance in 1993. Its technical conception has significant advantages over the first generation of cellular systems. Digital European Cordless Telecommunications will provide similar advantages. In Europe, the second generation of wireless communication is established and a Universal Mobile Telecommunications System is currently being conceived. All this leads to a natural subdivision of current research into four categories: new and improved usage of existing standards, signal processing algorithms that are simpler or closer to the optimum, further development of existing systems, and work that will ultimately lead to new system proposals. This volume presents the proceedings of a seminar at which all these categories were covered."--PUBLISHER'S WEBSITE. Code Division Multiple Access (CDMA) has become one of the main candidates for the next generation of mobile land and satellite

communication systems. CDMA is based on spread spectrum techniques, which have been used in military applications for over half a century. Only recently, however, has it been recognised that spread spectrum techniques, combined with some additional steps, can provide higher capacity and better flexibility for the mobile cellular radio communications. Code Division Multiple Access Communications comprises a set of contributions from the most distinguished world scientists in the field. These papers review the basic theory and some of the most important problems related to spread spectrum and CDMA. The topics covered centre on the information theory aspects of CDMA; interference suppression and performance analysis. The material presented in this book summarises the main problems in modern CDMA theory and practice and gives a solid starting point for studying this complex and still challenging field. As such Code Division Multiple Access Communications is essential reading for all researchers and designers working in mobile communication systems and provides an excellent text for a course on the subject. This standard handbook for engineers covers the fundamentals, theory and applications of radio, electronics, computers, and communications equipment. It provides information on essential, need-to-know topics without heavy emphasis on complicated mathematics. It is a "must-have" for every engineer who requires electrical, electronics, and communications data. Featured in this updated version is coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. This work also offers new knowledge in the fields of satellite technology, space communication, microwave science, telecommunication, global positioning systems, frequency data, and radar. Electrical Engineering/Communications/Information Theory "The Berlekamp article alone will make this book worth having." --David Forney, Vice President, Motorola Codex Reed-Solomon Codes and Their Applications Edited by Stephen B.

Wicker, Georgia Institute of Technology and Vijay K. Bhargava, University of Victoria On the Voyager spacecraft, they were responsible for sending clear pictures of the planets back to earth. They have also played a key role in the digital audio revolution. They are Reed-Solomon error codes: the extremely powerful codes that provide critical error control for many different types of digital communications systems. This outstanding collection of thirteen original articles written by leading researchers in the field provides a uniquely comprehensive overview of the history and practical applications--some never before published--of these important codes. Key features include: \* Thirteen original articles from leading researchers in the field, with a historical overview by Reed and Solomon \* An explanation of how Reed-Solomon codes were used in the Voyager spacecraft and how they are currently used in the compact disc player \* Specific applications for digital audio, data transfer over mobile radio, satellite communications, spread spectrum systems, and more \* New techniques for improving the performance of your own communications systems This book will be of interest to design and research engineers in the telecommunications field, particularly those in the aerospace/satellite and mobile radio industries. It is also well-suited for use as an advanced-level textbook on the subject of error control coding. Books of Related Interest from IEEE Press Claude Elwood Shannon: Collected Papers Edited by N. J. A. Sloane and A. D. Wyner. AT&T Bell Labs The first published collection of papers by Claude E. Shannon, including his seminal article "The Mathematical Theory of Communication." 1993 Hardcover 968 pp IEEE Order Number PC0331-9 ISBN 0-7803-0434-9 Multiple Access Communications: Foundations for Emerging Technologies Edited by Norman Abramson, University of Hawaii at Manoa The first book to explain the connection between spread spectrum and ALOHA channels, providing a collection of key developments in the theory and practice of multiple user communications channels. 1993 Hardcover 528pp IEEE Order Number PC0287-3 ISBN 0-87942-292-0 The Best of the Best: Fifty Years of Communications and Networking Research consists of a group of 50 papers selected as the

best published by ComSoc in its various journals in the Society's 50-year history. The editors of the collection have written an essay to introduce the papers and discuss the historical significance of the collection and how they were selected for the collection. The book divides the papers into two major categories (Communications and Networking) and groups them by decade within these major subdivisions. Radio Astronomy to Submarine Cable Systems Accompanying CD-ROM contains OrCAD Lite version 9.2 to focus on dc analysis, transient analysis, and steady-state sinusoidal (ac) analysis. Information, Coding and Mathematics is a classic reference for both professional and academic researchers working in error-correction coding and decoding, Shannon theory, cryptography, digital communications, information security, and electronic engineering. The work represents a collection of contributions from leading experts in turbo coding, cryptography and sequences, Shannon theory and coding bounds, and decoding theory and applications. All of the contributors have individually and collectively dedicated their work as a tribute to the outstanding work of Robert J. McEliece. Information, Coding and Mathematics covers the latest advances in the widely used and rapidly developing field of information and communication technology. This book provides an introduction to random processes, and includes content in digital communications and signal processing. Chapter topics cover Probability and Random Variables—Review and Notation, an introduction to Random Processes, Linear Filtering of Random Processes, and Frequency-Domain Analysis of Random Processes in Linear Systems. For practicing engineers. Vols. for 1977- consist of two parts: Chemistry, biological sciences, engineering sciences, metallurgy and materials science (issued in the spring); and Physics, electronics, mathematics, geosciences (issued in the fall). This book provides an introduction to the basic concepts in digital communications for readers with little or no previous exposure to either digital or analog communications. The intent is to help learners develop a firm understanding of digital communication system engineering--and to enable them to conduct system-level design and analysis for digital communication systems

of the future. As a result, the book emphasizes the basic principles of digital communications theory and techniques, rather than presenting specific technologies for implementation. Chapter topics include probability and random variables--review and notation, introduction to random processes, linear filtering of random processes, frequency-domain analysis of random processes in linear systems, baseband transmission of binary data, coherent communications, noncoherent communications, intersymbol interference, and spread-spectrum communication systems. For individuals preparing for a career in wireless communications system design. This book provides a unified view on the state-of-the-art of cognitive radio technology. It includes a set of research and survey articles featuring the recent advances in theory and applications of cognitive radio technology for the next generation (e.g., fourth generation) wireless communication networks. The contributed articles cover both the theoretical concepts (e.g., information-theoretic analysis) and system-level implementation issues. The professional fields of Wireless Computer Networks and Personal, Indoor and Mobile Radio Communications have, within a few years, become the fastest growing business area of telecommunications. The papers presented in these volumes on WCN focus on the emerging wireless extensions of intelligent networking and other computer services. The contributions on PIMRC concentrate on the latest developments in radio technologies and network access.

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## Networks

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