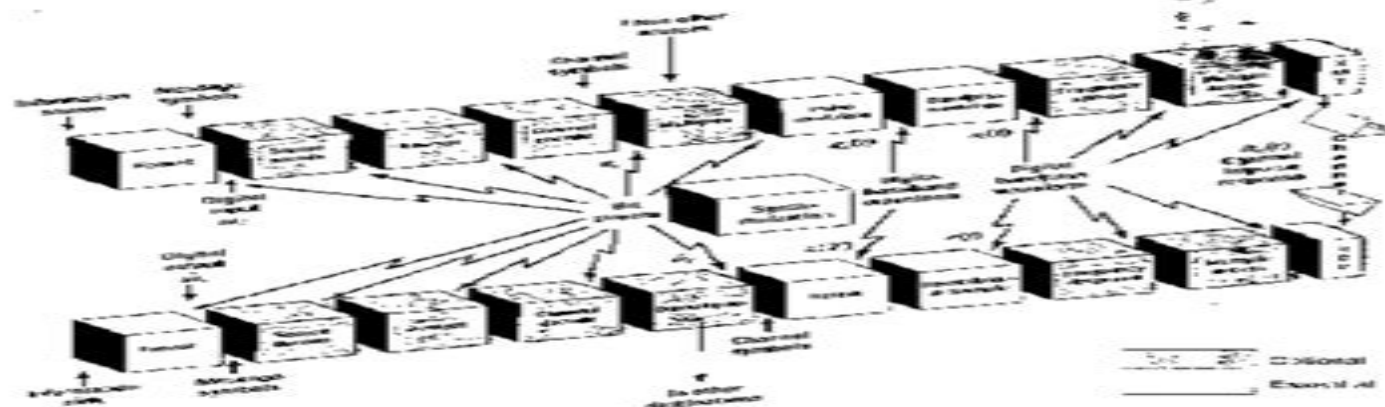


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Digital Communication Edward A. Lee, David G. Messerschmitt, 2012-12-06 This book concerns digital communication. Specifically we treat the transport of bit streams from one geographical location to another over various physical media such as wire pairs, coaxial cable, optical fiber, and radio waves. Further we cover the multiple access and synchronization issues relevant to constructing communication networks that simultaneously transport bit streams from many users. The material in this book is thus directly relevant to the design of a multitude of digital communication systems including, for example, local and metropolitan area data networks, voice and video telephony systems, digital CATV distribution, digital cellular and radio systems, the narrowband and broadband integrated services digital network (ISDN), computer communication systems, voiceband data modems, and satellite communication systems. We extract the common principles underlying these and other applications and present them in a unified framework. This book is intended for designers and would be designers of digital communication systems. To limit the scope to manageable proportions we have had to be selective in the topics covered and in the depth of coverage. In the case of advanced information coding and detection theory, for example, we have not tried to duplicate the in-depth coverage of many advanced textbooks but rather have tried to cover those aspects directly relevant to the design of digital communication systems.

Introduction to Communication Systems Upamanyu Madhow, 2014-11-24 Showcasing the essential principles behind modern communication systems, this accessible undergraduate textbook provides a solid introduction to the foundations of communication theory. Carefully selected topics introduce students to the most important and fundamental concepts, giving students a focused, in-depth understanding of core material and preparing them for more advanced study. Abstract concepts are introduced to students just in time and reinforced by nearly 200 end-of-chapter exercises alongside numerous MATLAB code fragments, software problems, and practical lab exercises, firmly linking the underlying theory to real-world problems and providing additional hands-on experience. Finally, an accessible lecture-style organization makes it easy for students to navigate to key passages and quickly identify the most relevant material. Containing material suitable for a one or two semester course and accompanied online by a password-protected solutions manual and supporting instructor resources, this is the perfect introductory textbook for undergraduate students studying electrical and computer engineering.

Principles of Digital Communication and Coding Andrew J. Viterbi, Jim K. Omura, 2013-04-22 Written by two distinguished experts in the field of digital communications, this classic text remains a vital resource three decades after its initial publication. Its treatment is geared toward advanced students of communications theory and to designers of channels, links, terminals, modems, or networks used to transmit and receive digital messages. The three-part approach begins with the fundamentals of digital communication and block coding, including an analysis of block code ensemble performance. The second part introduces convolutional coding, exploring ensemble performance and sequential decoding. The final section addresses source coding and rate-distortion theory, examining fundamental concepts for

memoryless sources as well as precepts related to memory Gaussian sources and universal coding Appendixes of useful information appear throughout the text and each chapter concludes with a set of problems the solutions to which are available online

Introduction to Digital Communications Ali Grami, 2025-06-20 Introduction to Digital Communications Second Edition is written for upper level undergraduate courses who need to understand the basic principles in the analysis and design of digital communication systems including design objectives constraints and trade offs After portraying the big picture and laying the background material the book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications The second edition has been fully revised with timely new chapters on wireless enabling systems and encryption more practical examples more application focused real world end of chapter exercises and a more crisp and concise approach to the content Focuses exclusively on digital communications with complete coverage of source and channel coding modulation and synchronization Discusses major aspects of communication networks and multiuser communications Provides insightful descriptions and intuitive explanations of all complex concepts Includes a companion website with solutions to end of chapter problems and computer exercises lecture slides and figures and tables from the text Presents enhanced coverage of signal space constellations phase locked loop and link analysis

Analog and Digital Communications Sudakshina Kundu, 2010-06 Analog and Digital Communications will help students irrespective of their level of study to grasp the fundamental aspects of electronic communication by starting from the basics and working up the rungs gradually and in a structured form The book is designed to make a student think consistently and grasp the concepts in steps to ensure understanding and retention The coverage of fundamental ideas allows the student to easily learn the future developments that come up in these areas

Applications in Electronics Pervading Industry, Environment and Society Sergio Saponara, Alessandro De Gloria, 2022-04-09 This book provides a thorough overview of cutting edge research on electronics applications relevant to industry the environment and society at large It covers a broad spectrum of application domains from automotive to space and from health to security while devoting special attention to the use of embedded devices and sensors for imaging communication and control The volume is based on the 2021 ApplePies Conference held online in September 2021 which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future Areas addressed by the conference included information communication technology biotechnology and biomedical imaging space secure clean and efficient energy the environment and smart green and integrated transport As electronics technology continues to develop apace constantly meeting previously unthinkable targets further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities This book written by industrial and academic professionals represents a valuable contribution in this endeavor

Digital Communication Edward A. Lee, David G. Messerschmitt, 1988 Engineering Education, 1990 **Books in Print**, 1994 **Fundamentals of**

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Forthcoming Books Rose Army, 1994-04 Books in Print Supplement, 2002 *PPI Electronics, Controls, and Communications Reference Manual eText - 1 Year* John A. Camara, 2019-04-15 New Edition Updated for 2019 John A. Camara's *Electronics Controls and Communications Reference Manual Second Edition ELRM2* offers complete review for the NCEES PE Electrical and Computer Electronics Controls and Communications exam. This book is the most up to date comprehensive reference manual available and is designed to help you pass the exam the first time. Topics Covered: General Electrical Engineering, Digital Systems, Electric and Magnetic Field Theory and Applications, Electronics Control System Fundamentals, National Electrical and Electrical Safety Codes. After you pass, Your *Electronics Controls and Communications Reference Manual* will serve as an invaluable reference throughout your electrical engineering career. Key Features: 300 plus solved example problems that illustrate key concepts, Hundreds of figures and tables, 40 appendices and 1 500 equations making it possible to work exam problems using the reference manual alone. Including an easy to use index and a full glossary for quick reference. Recommending a study schedule plus providing tips for successful exam preparation. Chapters on protection and safety and power system management. Information on phasor notation, cosine functions, power supplies, electronic instrumentation and insulation, ground testing and digital modulation. Content that exclusively covers the NCEES PE Electrical Electronics Controls and Communications exam specifications. Binding: Paperback. Publisher: PPI A Kaplan Company.

Embedded DSP Processor Design Dake Liu, 2008-05-30. This book provides design methods for Digital Signal Processors and Application Specific Instruction set Processors based on the author's extensive industrial design experience. Top down and bottom up design methodologies are presented providing valuable guidance for both students and practicing design engineers. Coverage includes design of internal external data types, application specific instruction sets, micro architectures including designs for datapath and control path as well as memory sub systems. Integration and verification of a DSP ASIP processor are discussed and reinforced with extensive examples. Instruction set design for application specific processors based on fast application profiling. Micro architecture design methodology. Micro architecture design details based on real examples. Extendable architecture design protocols. Design for efficient memory sub systems minimizing on chip memory and cost. Real example designs based on extensive industrial experiences. Whitaker's Book List, 1988 The Vocational-technical Library Collection Bruce Reinhart, 1970 *Scientific and Technical Books and Serials in Print*, 1984

Fundamentals of Digital Communication Systems Tolga M. Duman, 2024-12-31. This dynamic textbook provides students with a concise and accessible introduction to the fundamentals of modern digital communications systems. Building from first principles, its comprehensive approach equips students with all of the mathematical tools, theoretical knowledge and practical understanding they need to excel. It equips students with a strong mathematical foundation spanning signals and systems, probability, random variables and random processes and introduces students to key concepts in digital

information sources analog to digital conversion digital modulation power spectra multi carrier modulation and channel coding It includes over 85 illustrative examples and more than 270 theoretical and computational end of chapter problems allowing students to connect theory to practice and is accompanied by downloadable Matlab code and a digital solutions manual for instructors Suitable for a single semester course this succinct textbook is an ideal introduction to the field of digital communications for senior undergraduate students in electrical engineering

Solutions Manual for Modern Digital and Analog Communication Systems B. P. Lathi, 2000 This third edition has been revised to include expanded coverage of digital communications New topics include spread spectrum systems cellular communication systems global positioning systems GPS and a chapter on emerging digital technologies such as SONET ISDN and video compression

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