DIGITAL COMMUNICATIONS

John G. Proakis

THIRD EDITION



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Digital Communication By Proakis 3rd Edition

S. V. Raghavan, Satish K. Tripathi

Digital Communication By Proakis 3rd Edition:

Theory and Design of Digital Communication Systems Tri T. Ha,2010-10-28 Providing the underlying principles of digital communication and the design techniques of real world systems this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry Covering the core concepts including modulation demodulation equalization and channel coding it provides step by step mathematical derivations to aid understanding of background material In addition to describing the basic theory the principles of system and subsystem design are introduced enabling students to visualize the intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications Throughout the book theories are linked to practical applications with over 250 real world examples whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material With this textbook students can understand how digital communication systems operate in the real world learn how to design subsystems and evaluate end to end performance with ease and confidence Communications Dr. J. S. Chitode, 2020-12-01 There are eight chapters useful appendix and solved question papers in the book Basic digital communication line codes and sampling methods are presented at the beginning Digital pulse modulation techniques such as PCM DPCM DM ADM are presented Continuous wave digital modulation methods such as BPSK DPSK QPSK QAM BFSK and OOK are presented with mathematical analysis of modulators and receivers Issues related to baseband transmission such as ISI Nyquist pulse shaping criterian optimum reception matched filter and eye patterns are also discussed Concepts of information theory such as discrete memoryless channels mutual information shannon s theorems on source coding are also presented Coding using linear block codes cyclic codes and convolutional coding is also discussed Secured communication using spread spectrum modulation is also discussed in detail Digital Communication Systems Engineering with Software-defined Radio Di Pu, Alexander M. Wyglinski, 2013 For a senior level undergraduate course on digital communications this unique resource provides you with a practical approach to quickly learning the software defined radio concepts you need to know for your work in the field Communication Systems - I Dr. J. S. Chitode, 2020-12-01 Analysis tools such as Fourier series Fourier transforms signals systems and spectral densities are discussed in the second chapter Introduction is presented in the first chapter Third chapter presents additional analysis techniques such as probability random variables distribution functions and density functions Probability models and random processes are also discussed Noise representation sources noise factor noise temperature filtering of noise noise bandwidth and performance of AM FM in presence of noise is discussed in fourth chapter Analog pulse modulation is presented in fifth chapter Sampling PAM PAM TDM are discussed in this chapter Sixth chapter deals with digital pulse modulation methods such as PCM DM ADM and DPCM Seventh chapter presents digital multiplexers line coding synchronization scramblers ISI eye patterns and equalization techniques Digital modulation is presented in eighth chapter Phase shift keying frequency shift keying QPSK

QAM and MSK are presented Last chapter deals with error performance of these techniques using matched filter

Communication Theory Dr. J. S. Chitode,2021-01-01 Amplitude modulation and Angle modulation are discussed in first two chapters AM FM analysis equations modulators detectors transmission and reception are thoroughly presented SSB DSB VSB FDM are also discussed Noise theory is given in third chapter It includes random variables probability random processes and correlation functions Noise factor noise temperature and mathematical analysis of noise is presented Performance of modulation systems in the presence of noise is explained in fourth chapter Figure of merit capture effect and threshold effect are also presented Last chapter presents information theory Entropy information rate discrete memoryless source source coding Shannon's theorems are also given in detail Mutual information and channel capacity are also presented

Information Theory and Coding Dr. J. S. Chitode, 2021-01-01 Various measures of information are discussed in first chapter Information rate entropy and mark off models are presented Second and third chapter deals with source coding Shannon's encoding algorithm discrete communication channels mutual information Shannon's first theorem are also presented Huffman coding and Shannon Fano coding is also discussed Continuous channels are discussed in fourth chapter Channel coding theorem and channel capacity theorems are also presented Block codes are discussed in chapter fifth sixth and seventh Linear block codes Hamming codes syndrome decoding is presented in detail Structure and properties of cyclic codes encoding and syndrome decoding for cyclic codes is also discussed Additional cyclic codes such as RS codes Golay codes burst error correction is also discussed Last chapter presents convolutional codes Time domain transform domain approach code tree code trellis state diagram Viterbi decoding is discussed in detail Communication Systems - II Dr. J. S. Chitode, 2020-12-01 Introduction in first chapter includes various topics given in the book Second chapter deals with information theory that includes modes of sources and channels information and entropy source coding discrete memoryless channels mutual information and Shannon's theorems are given Linear block codes cyclic codes Hamming codes syndrome decoding convolutional codes are given in third chapter Spread spectrum communication includes pseudo noise sequences direct sequence and frequency hop spread spectrum It is presented in fourth chapter Multiple access techniques are reviewed in fifth chapter Sixth chapter deals with satellite communications Satellite orbits satellite access earth station transponder frequency reuse link budget VSAT and MSAT are presented Fibre optic communication is introduced in seventh chapter Light propagation in fiber losses modes dispersion light sources and detectors fiber optic link are presented in this Wireless Communications Andreas F. Molisch, 2022-11-15 An in depth and comprehensive treatment of wireless chapter communication technology ranging from the fundamentals to the newest research results The expanded and completely revised Third Edition of Wireless Communications delivers an essential text in wireless communication technology that combines mathematical descriptions with intuitive explanations of the physical facts that enable readers to acquire a deep understanding of the subject This latest edition includes brand new sections on cutting edge research topics such as massive

MIMO polar codes heterogeneous networks non orthogonal multiple access as well as 5G cellular standards WiFi 6 and Bluetooth Low Energy Together with the re designed descriptions of fundamentals such as fading OFDM and multiple access it provides a thorough treatment of all the technologies that underlie fifth generation and beyond systems A complementary companion website provides readers with a wealth of old and new material including instructor resources available upon request Readers will also find A thorough introduction to the applications and requirements of modern wireless services including video streaming virtual reality and Internet of Things Comprehensive explorations of wireless propagation mechanisms and channel models ranging from Rayleigh fading to advanced models for MIMO communications Detailed discussions of single user communications fundamentals including modern coding techniques multi carrier communications and single user MIMO Extensive description of multi user communications including packet radio systems CDMA scheduling admission control cellular and ad hoc network design and multi user MIMO In depth examinations of advanced topics in wireless communication like speech and video coding cognitive radio NOMA network coding and wireless localization A comprehensive description of the key wireless standards including LTE 5G WiFi Bluetooth and an outlook to Beyond 5G systems Perfect for advanced undergraduate and graduate students with a basic knowledge of standard communications Wireless Communications will also earn a place in the libraries of researchers and system designers seeking a one stop resource on wireless communication technology Digital Communication Over Fading Channels Marvin K. Simon, Mohamed-Slim Alouini, 2000-08-14 A unified presentation broad coverage single volume convenience This timesaving reference provides a unified approach to the performance analysis of digital communication systems over generalized fading channels Employing alternative forms of such classical mathematical functions as the Gaussian Q function the Marcum Q function and the incomplete Gamma function the book expresses communication system error probability performance in terms of the moment generation function MGF of the fading process This MGF based approach provides the unifying backbone of the book Digital Communication over Fading Channels discusses in detail coherent differentially coherent and noncoherent communication systems as well as a large variety of fading channel models typical of communication links found in the real world Coverage also includes single and multichannel reception and in the case of the latter a large variety of diversity types For each combination of communication type channel fading model and diversity type the average bit error rate and or symbol error rate is expressed in an easy to evaluate form Special features include Important results previously scattered over many publications now in a single volume Simplified results heretofore available only in complex forms Extremely broad coverage of topics Explores practical applications including the problem of optimum combining in the presence of co channel interference Contemporary Communication Systems Using MATLAB John G. Proakis, Masoud Salehi,1998 This text contains a large number of MATLAB based problems dealing with topics covered in a first course in communication systems Each chapter contains fundamental concepts briefly reviewed and presents illustration problems

using MATLAB Each chapter contains a list of MATLAB files used Standard Handbook of Electronic Engineering, 5th Edition Donald Christiansen, Charles K. Alexander, Ronald K. Jurgen, 2005-01-10 The Standard Handbook of Electronics Engineering has defined its field for over thirty years Spun off in the 1960 s from Fink s Standard Handbook of Electrical Engineering the Christiansen book has seen its markets grow rapidly as electronic engineering and microelectronics became the growth engine of digital computing The EE market has now undergone another seismic shift away from computing and into communications and media The Handbook will retain much of its evergreen basic material but the key applications sections will now focus upon communications networked media and medicine the eventual destination of the majority of graduating EEs these days

Digital Wireless Communication, 2002

Conference Record, 1999

Communication Over the Noncoherent Channel Rza Nuriyev,2003 Technical Program, Conference Record ,1999 Chinese Journal of Electronics ,2003 The 14th IEEE 2003 International Symposium on Personal, Indoor, and Mobile Radio Communications Ke Gong, Zhisheng Niu,2003 Proceedings ,2001 Networked Multimedia Systems S. V. Raghavan, Satish K. Tripathi,1998 Written in an easy conversational style this is one of the first references to address concepts architecture and design of networked multimedia systems giving equal treatment to both multimedia and networking Using an abundance of examples and illustrations to explain concepts it gives balanced treatment to all topics in designing systems Microwave Journal ,2006

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