

Digital Communications

Fourth Edition

John G. Proakis

Digital Communication By Proakis 3rd Edition

Dr. J. S. Chitode



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 *Digital 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 criterion 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 Digital Communications Mehmet Safak, 2017-04-17 This is a modern textbook on digital communications and is designed for senior undergraduate and graduate students whilst also providing a valuable reference for those working in the telecommunications industry It provides a simple and thorough access to a wide range of topics through use of figures tables examples and problem sets The author provides an integrated approach between RF engineering and statistical theory of communications Intuitive explanations of the theoretical and practical aspects of telecommunications help the reader to acquire a deeper understanding of the topics The book covers the fundamentals of antennas channel modelling receiver system noise A/D conversion of signals PCM baseband transmission optimum receiver modulation techniques error control coding OFDM fading channels diversity and combining techniques MIMO systems and cooperative communications It will be an essential reference for all students and practitioners in the

electrical engineering field **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 Markoff 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

Electromagnetics for High-Speed Analog and Digital Communication Circuits Ali M. Niknejad, 2007-02-22 Modern communications technology demands smaller faster and more efficient circuits This book reviews the fundamentals of electromagnetism in passive and active circuit elements highlighting various effects and potential problems in designing a new circuit The author begins with a review of the basics the origin of resistance capacitance and inductance then progresses to more advanced topics such as passive device design and layout resonant circuits impedance matching high speed switching circuits and parasitic coupling and isolation techniques Using examples and applications in RF and microwave systems the author describes transmission lines transformers and distributed circuits State of the art developments in Si based broadband analog RF microwave and mm wave circuits are reviewed With up to date results techniques practical examples illustrations and worked examples this book will be valuable to advanced undergraduate and graduate students of electrical engineering and practitioners in the IC design industry Further resources for this title are available at www.cambridge.org/9780521853507

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 chapter

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

Multimedia Data Hiding Min Wu, Bede Liu, 2013-03-19 The digital information revolution has brought about profound changes in our society and our life New devices and powerful software have made it possible for consumers worldwide to create manipulate share and enjoy the multimedia information Internet and wireless networks offer ubiquitous channels to deliver and to exchange multimedia information for such purposes as remote collaboration distant learning and entertainment With all these advances in multimedia coding and communication technologies over the past decade the major hurdle for allowing much broader access of multimedia assets and deployment of multimedia services no longer lies with bandwidth related issues but with how to make sure that content is used for its intended purpose by its intended recipients The core issue then becomes the development of secure management of content usage and delivery across communication networks Data hiding and digital watermarking are promising new technologies for multimedia information protection and rights management Secondary data can be embedded imperceptibly in digital multimedia signals for a variety of applications including ownership protection authentication access control and annotation Data hiding can also be used to send side information in multimedia communication for providing additional functionalities or for enhancing performance The extraction of the embedded data may or may not need knowledge of the original host media data In addition to imperceptibility robustness against moderate processing such as compression is also an important consideration

CDMA Techniques for Third Generation Mobile Systems Francis Swarts, Pieter van Rooyen, Ian Oppermann, Michiel P. Lötter, 2012-12-06 CDMA Techniques for Third Generation Mobile Systems presents

advanced techniques for analyzing and developing third generation mobile telecommunication systems Coverage includes analysis of CDMA based systems multi user receivers Turbo coding for mobile radio applications spatial and temporal processing techniques as well as software radio techniques Special emphasis has been given to recent advances in coding techniques smart antenna systems spatial filtering and software implementation issues Internationally recognized specialists contributed to this volume and each chapter has been reviewed and edited for uniformity CDMA Techniques for Third Generation Mobile Systems is an invaluable reference work for engineers and researchers involved in the development of specific CDMA systems

Practical Data Communications Roger L. Freeman, 2001-07-02 Practical Data Communications behandelt eines der am schnellsten wachsenden Spezialgebiete der Telekommunikation Der Stoff wird entsprechend aufbereitet f r Einf hrungsvorlesungen der Telekommunikationstechnik und f r zugeh rige Praktika Diese 2 Auflage wurde gr ndlich bearbeitet und aktualisiert Lehrbuch und Praxishandbuch der Daten bermittlung in einem Band Hier erfahren Sie alles ber Datennetze insbesondere praxisrelevante Aspekte des Entwurfs und Betriebs von Netzen Ausf hrlich behandelt werden ATM und Management Ebenfalls angesprochen werden neueste Entwicklungen bei LANs und WANs ber 400 Abbildungen und Diagramme erleichtern Verst ndnis und berblick

Design, Simulation and Applications of Inductors and Transformers for Si RF ICs Ali M. Niknejad, Robert G. Meyer, 2005-12-15 The modern wireless communication industry has put great demands on circuit designers for smaller cheaper transceivers in the gigahertz frequency range One tool which has assisted designers in satisfying these requirements is the use of on chip inductive elements inductors and transformers in silicon Si radio frequency RF integrated circuits ICs These elements allow greatly improved levels of performance in Si monolithic low noise amplifiers power amplifiers up conversion and down conversion mixers and local oscillators Inductors can be used to improve the intermodulation distortion performance and noise figure of small signal amplifiers and mixers In addition the gain of amplifier stages can be enhanced and the realization of low cost on chip local oscillators with good phase noise characteristics is made feasible In order to reap these benefits it is essential that the IC designer be able to predict and optimize the characteristics of on chip inductive elements Accurate knowledge of inductance values quality factor Q and the influence of adjacent elements on chip proximity effects and substrate losses is essential In this book the analysis modeling and application of on chip inductive elements is considered Using analyses based on Maxwells equations an accurate and efficient technique is developed to model these elements over a wide frequency range Energy loss to the conductive substrate is modeled through several mechanisms including electrically induced displacement and conductive currents and by magnetically induced eddy currents These techniques have been compiled in a user friendly software tool ASITIC Analysis and Simulation of Inductors and Transformers for Integrated Circuits

Broadband Wireless Communications Jiangzhou Wang, 2006-04-18 The broadband wireless communications field is growing at an explosive rate stimulated by a host of important emerging applications ranging from 3G 4G and wireless LAN Wideband CDMA and

CDMA2000 will be used for 3G OFDM CDMA might be a good choice for 4G CDMA overlay will possibly be used for new generation broadband wireless LAN For system planners and designers the projections of rapidly escalating demand for such wireless services present major challenges and meeting these challenges will require sustained technical innovation on many fronts The text of this book has been developed through years of research by the author and his graduate students at the University of Hong Kong The aim of this book is to provide a R D perspective on the field of broadband wireless communications by describing the recent research developments in this area and also by identifying key directions in which further research is needed As a background I presume that the reader has a thorough understanding of digital communications and spread spectrum CDMA The book is arranged into 13 chapters In chapter 1 some key specifications of 3G WCDMA are described and discussed These techniques include channel coding rate matching modulation and spreading power control cell search transmit diversity soft handoff and so on In Chapter 2 the coherent RAKE reception of Wideband CDMA signals with complex spreading is considered A dedicated pilot channel which is separate from data channels is used for the purpose of channel estimation

Evolutionary Image Analysis, Signal Processing and Telecommunications Riccardo Poli,Hans-Michael Voigt,Stefano Cagnoni,David Corne,George D. Smith, Terence C. Fogarty,2006-10-11 This book constitutes the refereed joint proceedings of the First European Workshop on Evolutionary Computation in Image Analysis and Signal Processing EvoIASP 99 and of the First European Workshop on Evolutionary Telecommunications EuroEctel 99 held in Gteborg Sweden in May 1999 The 18 revised full papers presented were carefully reviewed and selected for inclusion in the volume The book presents state of the art research results applying techniques from evolutionary computing in the specific application areas

An Experimental Approach to CDMA and Interference Mitigation Luca Fanucci,Marco Luise,Filippo Giannetti,Massimo Rovini,2007-05-08 An Experimental Approach to CDMA and Interference Mitigation was written with the admittedly ambitious intent of filling the gap between communication theory and VLSI implementation and thus to provide a more general theoretical approach to the design development and testing of a CDMA receiver As a consequence the concepts and techniques that are presented turn out to be applicable to a more general kind of digital wireless modems in terms of receiver architecture design and implementation As the reader will easily find out the subject of digital modem design and implementation is addressed in the book starting from a theoretical approach supported by proper bibliographic references and is followed by application issues with reference to an ESA experiment assumed as a case study A complete design flow from specification to implementation including testing and final verification is then presented This leads the reader step by step to a thorough understanding of CDMA transmission and detection and constitutes a practical guidance for the design of VLSI wireless mobile terminals

Design, evaluation and implementation of a multi-carrier transmission system for aeronautical communications Erik Haas,2003

Orthogonal Frequency Division Multiplexing with Diversity for Future Wireless Systems Khoa N. Le,2012 The book examines several aspects of Orthogonal Frequency Division Multiplexing OFDM

employing linear diversity techniques such as inter carrier interference bit error rate peak to average power and inter block interference It should be a useful reference

Mobile Computing Tomasz Imielinski, Henry F. Korth, 2007-08-26 The rapid development of wireless digital communication technology has created capabilities that software systems are only beginning to exploit The falling cost of both communication and of mobile computing devices laptop computers hand held computers etc is making wireless computing affordable not only to business users but also to consumers Mobile computing is not a scaled down version of the established and we studied field of distributed computing The nature of wireless communication media and the mobility of computers combine to create fundamentally new problems in networking operating systems and information systems Further more many of the applications envisioned for mobile computing place novel demands on software systems Although mobile computing is still in its infancy some basic concepts have been identified and several seminal experimental systems developed This book includes a set of contributed papers that describe these concepts and systems Other papers describe applications that are currently being deployed and tested The first chapter offers an introduction to the field of mobile computing a survey of technical issues and a summary of the papers that comprise subsequent chapters We have chosen to reprint several key papers that appeared previously in conference proceedings Many of the papers in this book are being published here for the first time Of these new papers some are expanded versions of papers first presented at the NSF sponsored Mobidata Workshop on Mobile and Wireless Information Systems held at Rutgers University on Oct 31 and Nov 1 1994

Understanding Ultra Wide Band Radio Fundamentals Maria-Gabriella Di Benedetto, Guerino Giancola, 2004-06-17 Combines the theory and practical with simulation tools for the understanding and design of Ultra Wide Band UWB communication networks UWB is a revolutionary technology recently receiving FCC approval The UWB standard has several advantages including high transmission rates and the ability to carry signals while accounting for solid matter interference Provides a theoretical analysis of the fundamentals of UWB radio communications supported by practical examples developed using computer simulations using MATLAB UWB devices can be used for a variety of communications applications involving the transmission of very high data rates over short distances without suffering the effects of multi path interference UWB communication devices could be used to wirelessly distribute services such as phone cable and computer networking throughout a building or home These devices could also be utilized by police fire and rescue personnel to provide covert secure communications devices The book presents the theoretical analysis of fundamental principles of Ultra Wide Band UWB radio communications supported by practical examples developed using computer simulation The simulation codes are provided in the form of user customizable MATLAB functions which are included in the book The examples are inserted within the theoretical treatise in order to help and guide the reader in the understanding of analytical principles The book covers issues related to both UWB signal transmission and UWB network organization In particular the topics covered by the book are principles of UWB radio transmission and modulation PPM PAM

and DS UWB for Impulse Radio OFDM for the multi band approach UWB channel modeling receiver structures Multi User Interference modeling Localization Network organization advanced Medium Access Control and routing design strategies

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