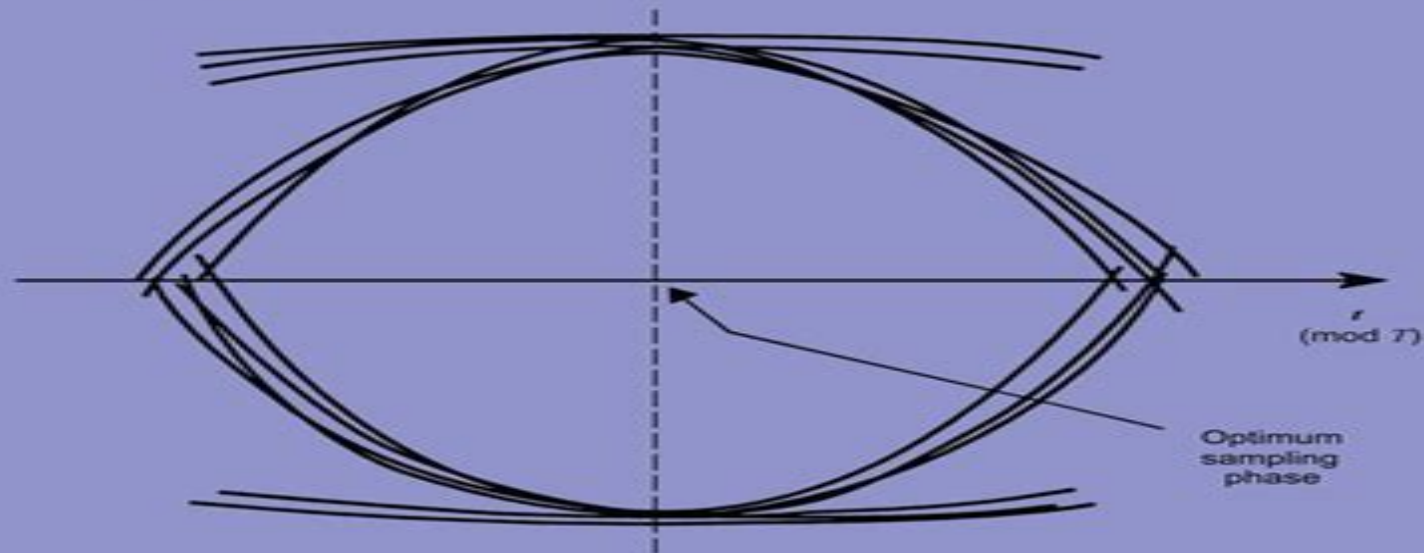


Applications of Communications Theory

Synchronization Techniques for Digital Receivers



**Umberto Mengali
and
Aldo N. D'Andrea**

Synchronization Techniques For Digital Receivers

Applications Of Communications Theory

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Synchronization Techniques for Digital Receivers Umberto Mengali, 1997-10-31 Synchronization is a critical function in digital communications its failures may have catastrophic effects on the transmission system performance Furthermore synchronization circuits comprehend such a large part of the receiver hardware that their implementation has a substantial impact on the overall costs For these reasons design engineers are particularly concerned with the development of new and more efficient synchronization structures Unfortunately the advent of digital VLSI technology has radically affected modem design rules to a point that most analog techniques employed so far have become totally obsolete Although digital synchronization methods are well established by now in the literature they only appear in the form of technical papers often concentrating on specific performance or implementation issues As a consequence they are hardly useful to give a unified view of an otherwise seemingly heterogeneous field It is widely recognized that a fundamental understanding of digital synchronization can only be reached by providing the designer with a solid theoretical framework or else he will not know where to adjust his methods when he attempts to apply them to new situations The task of the present book is just to develop such a framework

Synchronization Techniques for Digital Receivers Umberto Mengali, 2013-11-11 Synchronization is a critical function in digital communications its failures may have catastrophic effects on the transmission system performance Furthermore synchronization circuits comprehend such a large part of the receiver hardware that their implementation has a substantial impact on the overall costs For these reasons design engineers are particularly concerned with the development of new and more efficient synchronization structures Unfortunately the advent of digital VLSI technology has radically affected modem design rules to a point that most analog techniques employed so far have become totally obsolete Although digital synchronization methods are well established by now in the literature they only appear in the form of technical papers often concentrating on specific performance or implementation issues As a consequence they are hardly useful to give a unified view of an otherwise seemingly heterogeneous field It is widely recognized that a fundamental understanding of digital synchronization can only be reached by providing the designer with a solid theoretical framework or else he will not know where to adjust his methods when he attempts to apply them to new situations The task of the present book is just to develop such a framework

Digital Communications and Signal Processing (Second Edition) Ke Vāsudēvan, 2010

Wireless Communication Signals Huseyin Arslan, 2021-04-06 WIRELESS COMMUNICATION SIGNALS A practical guide to wireless communication systems and concepts Wireless technologies and services have evolved significantly over the last couple of decades and Wireless Communication Signals offers an important guide to the most recent advances in wireless communication systems and concepts grounded in a practical and laboratory perspective Written by a noted expert on the topic the book provides the information needed to model simulate test and analyze wireless system and wireless circuits using modern instrumentation and computer aided design software Designed as

a practical resource the book provides a clear understanding of the basic theory software simulation hardware test and modeling system component testing software and hardware interactions and co simulations This important book Provides organic and harmonized coverage of wireless communication systems Covers a range of systems from radio hardware to digital baseband signal processing Presents information on testing and measurement of wireless communication systems and subsystems Includes MATLAB file codes Written for professionals in the communications industry technical managers and researchers in both academia and industry Wireless Communication Signals introduces wireless communication systems and concepts from both a practical and laboratory perspective

Detection Algorithms for Wireless Communications Gianluigi Ferrari, Giulio Colavolpe, Riccardo Raheli, 2005-12-13 Wireless channels are becoming more and more important with the future development of wireless ad hoc networks and the integration of mobile and satellite communications To this end algorithmic detection aspects involved in the physical layer will become fundamental in the design of a communication system This book proposes a unified approach to detection for stochastic channels with particular attention to wireless channels The core idea is to show that the three main criteria of sequence detection symbol detection and graph based detection can all be described within a general framework This implies that a detection algorithm based on one criterion can be extended to the other criteria in a systematic manner Presents a detailed analysis of statistical signal detection for digital signals transmitted over wireless communications Provides a unifying framework for different signal detection algorithms such as sequence detection symbol detection and graph based detection important for the design of modern digital receivers operating over mobile channels Features the hot topic of graph based detection Detection Algorithms for Wireless Communications represents a novel contribution with respect to the current literature with a unique focus on detection algorithms as such it will prove invaluable to researchers working in academia and industry and in the field of wireless communications as well as postgraduate students attending advanced courses on mobile communications

Radio Engineering Jacques Palicot, 2013-01-09 Software radio ideally provides the opportunity to communicate with any radio communication standard by modifying only the software without any modification to hardware components However taking into account the static behavior of current communications protocols the spectrum efficiency optimization and flexibility the radio domain has become an important factor From this thinking appeared the cognitive radio paradigm This evolution is today inescapable in the modern radio communication world It provides an autonomous behavior to the equipment and therefore the adaptation of communication parameters to better match their needs This collective work provides engineers researchers and radio designers with the necessary information from mathematical analysis and hardware architectures to design methodology and tools running platforms and standardization in order to understand this new cognitive radio domain

Software-Defined Radio for Engineers Alexander M. Wyglinski, Robin Getz, Travis Collins, Di Pu, 2018-04-30 Based on the popular Artech House classic Digital Communication Systems Engineering with Software Defined Radio this book provides a

practical approach to quickly learning the software defined radio SDR concepts needed for work in the field This up to date volume guides readers on how to quickly prototype wireless designs using SDR for real world testing and experimentation This book explores advanced wireless communication techniques such as OFDM LTE WLA and hardware targeting Readers will gain an understanding of the core concepts behind wireless hardware such as the radio frequency front end analog to digital and digital to analog converters as well as various processing technologies Moreover this volume includes chapters on timing estimation matched filtering frame synchronization message decoding and source coding The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception Multiple case studies are provided throughout the book Both MATLAB and Simulink source code are included to assist readers with their projects in the field

LDPC Coded Modulations Michele Franceschini, Gianluigi Ferrari, Riccardo Raheli, 2009-04-09 This book focuses on the analysis and design of low density parity check LDPC coded modulations which are becoming part of several current and future communication systems such as high throughput terrestrial and satellite wireless networks In this book a two sided perspective on the design of LDPC coded systems is proposed encompassing both code modulation optimization transmitter side and detection algorithm design receiver side After introducing key concepts on error control coding in particular LDPC coding and detection techniques the book presents several relevant applications More precisely by using advanced performance evaluation techniques such as extrinsic information transfer charts the optimization of coded modulation schemes are considered for i memoryless channels ii dispersive and partial response channels and iii concatenated systems including differential encoding This book is designed to be used by graduate students working in the field of communication theory with particular emphasis on LDPC coded communication schemes and industry experts working on related fields

Synchronization Techniques for Digital Receivers Umberto Mengali, 2014-01-15

Digital Communications with Emphasis on Data Modems Richard W. Middlestead, 2017-04-03 This book uses a practical approach in the application of theoretical concepts to digital communications in the design of software defined radio modems This book discusses the design implementation and performance verification of waveforms and algorithms appropriate for digital data modulation and demodulation in modern communication systems Using a building block approach the author provides an introductory to the advanced understanding of acquisition and data detection using source and executable simulation code to validate the communication system performance with respect to theory and design specifications The author focuses on theoretical analysis algorithm design firmware and software designs and subsystem and system testing This book treats system designs with a variety of channel characteristics from very low to optical frequencies This book offers system analysis and subsystem implementation options for acquisition and data detection appropriate to the channel conditions and system specifications and provides test methods for demonstrating system performance This book

also Outlines fundamental system requirements and related analysis that must be established prior to a detailed subsystem design Includes many examples that highlight various analytical solutions and case studies that characterize various system performance measures Discusses various aspects of atmospheric propagation using the spherical 4/3 effective earth radius model Examines Ionospheric propagation and uses the Rayleigh fading channel to evaluate link performance using several robust waveform modulations Contains end of chapter problems allowing the reader to further engage with the text *Digital Communications with Emphasis on Data Modems* is a great resource for communication system and digital signal processing engineers and students looking for in depth theory as well as practical implementations

Handbook of Information Security, Key Concepts, Infrastructure, Standards, and Protocols Hossein Bidgoli, 2006-03-20 The Handbook of Information Security is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security The text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security information privacy and information warfare

Academic Press Library in Signal Processing Fulvio Gini, Nikolaos D. Sidiropoulos, 2013-09-10 This second volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in communications and radar engineering With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Cognitive Radio Oriented Wireless Networks Dominique Noguet, Klaus Moessner, Jacques Palicot, 2016-05-28 This book constitutes the thoroughly refereed conference proceedings of the 11th International Conference on Cognitive Radio Oriented Wireless Networks CROWNCOM 2016 held in Grenoble France May 30 April 1 2016 The 62 revised full papers presented were carefully reviewed and selected from numerous submissions and cover the evolution of cognitive radio technology pertaining to 5G networks The papers are clustered to topics on dynamic spectrum access management networking protocols for CR modeling and theory HW architecture and implementations next generation of cognitive networks standards and business models emerging applications for cognitive networks

Real-Time Digital Signal Processing from MATLAB® to C with the TMS320C6x DSPs, Second Edition Thad B. Welch, Cameron H.G. Wright, Michael G. Morrow, 2011-12-22 From the Foreword There are many good textbooks today to teach digital signal processing but most of them are content to teach the theory and perhaps some MATLAB simulations This book has taken a bold step forward It not only presents the theory it reinforces it

with simulations and then it shows us how to actually use the results in real time applications This last step is not a trivial step and that is why so many books and courses present only theory and simulations With the combined expertise of the three authors of this text the reader can step into the real time world of applications with a text that presents an accessible path Delores M Etter Texas Instruments Distinguished Chair in Electrical Engineering and Executive Director Caruth Institute for Engineering Education Southern Methodist University Dallas Texas USA Mastering practical application of real time digital signal processing DSP remains one of the most challenging and time consuming pursuits in the field It is even more difficult without a resource to bridge the gap between theory and practice Filling that void Real Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSPs Second Edition is organized in three sections that cover enduring fundamentals and present practical projects and invaluable appendices This updated edition gives readers hands on experience in real time DSP using a practical step by step framework that also incorporates demonstrations exercises and problems coupled with brief overviews of applicable theory and MATLAB application Engineers educators and students rely on this book for precise simplified instruction on use of real time DSP applications The book s software supports the latest high performance hardware including the powerful inexpensive and versatile OMAP L138 Experimenter Kit and other development boards Incorporating readers valuable feedback and suggestions this installment covers additional topics such as PN sequences and more advanced real time DSP projects including higher order digital communications projects making it even more valuable as a learning tool

Next-Generation GNSS Signal Design Zheng Yao, Mingquan Lu, 2020-07-01 This book systematically discusses the signal design theory and technologies for next generation satellite navigation systems It provides comprehensive information on the basic concept theory and key technologies employed in satellite navigation system signal design Starting from the basic elements of the navigation signal it combines traditional and advanced technologies into an organic whole offering readers a complete system for signal design Thanks to its rich content and clear structure it is well suited as a reference guide for researchers and engineers in the fields of satellite navigation positioning etc The book can also be used as teaching material or supplemental reading material by professors and graduate students alike

Digital and Analog Fiber Optic Communications for CATV and FTTx Applications Avigdor Brillant, 2008 This book is intended to provide a step by step guide to all design aspects and tradeoffs from theory to application for fiber optics transceiver electronics Presenting a compendium of information in a structured way this book enables the engineer to develop a methodical design approach a deep understanding of specifications parameters and the reasons behind them as well as their effects and consequences on system performance which are essential for proper component design Further a fundamental understanding of RF digital circuit design and linear and nonlinear phenomena is important in order to achieve the desired performance levels Becoming familiar with solid state devices and passives used to build optical receivers and transmitters is also important so one can effectively overcome design limitations

Bandwidth-Efficient Digital

Modulation with Application to Deep Space Communications Marvin K. Simon, 2005-02-18 An important look at bandwidth efficient modulations with applications to today's Space program Based on research and results obtained at the California Institute of Technology's Jet Propulsion Laboratory this timely book defines describes and then delineates the performance power and bandwidth of digital communication systems that incorporate a wide variety of bandwidth efficient modulations appropriate for the design and implementation of space communications systems The author compares the performance of these systems in the presence of a number of practical non ideal transmitter and receiver characteristics such as modulator and phase imbalance imperfect carrier synchronization and transmitter nonlinearity Although the material focuses on the deep space applications developed at the Jet Propulsion Laboratory the presentation is sufficiently broad as to be applicable to a host of other applications dealing with RF communications An important contribution to the scientific literature Bandwidth Efficient Digital Modulation with Application to Deep Space Communications was commissioned by the JPL Deep Space Communications and Navigation System Center of Excellence highlights many NASA funded technical contributions pertaining to deep space communications systems is a part of the prestigious Deep Space Communications and Navigation Series The Deep Space Communications and Navigation Series is authored by scientists and engineers with extensive experience in astronautics communications and related fields It lays the foundation for innovation in the areas of deep space navigation and communications by disseminating state of the art knowledge in key technologies

Introduction to Digital Communication Systems Krzysztof Wesolowski, 2009-07-31 Combining theoretical knowledge and practical applications this advanced level textbook covers the most important aspects of contemporary digital communication systems Introduction to Digital Communication Systems focuses on the rules of functioning digital communication system blocks starting with the performance limits set by the information theory Drawing on information relating to turbo codes and LDPC codes the text presents the basic methods of error correction and detection followed by baseband transmission methods and single and multi carrier digital modulations The basic properties of several physical communication channels used in digital communication systems are explained showing the transmission and reception methods on channels suffering from intersymbol interference The text also describes the most recent developments in the transmission techniques specific to wireless communications used both in wireline and wireless systems The case studies are a unique feature of this book illustrating elements of the theory developed in each chapter Introduction to Digital Communication Systems provides a concise approach to digital communications with practical examples and problems to supplement the text There is also a companion website featuring an instructors solutions manual and presentation slides to aid understanding Offers theoretical and practical knowledge in a self contained textbook on digital communications Explains basic rules of recent achievements in digital communication systems such as MIMO turbo codes LDPC codes OFDMA SC FDMA Provides problems at the end of each chapter with an instructors solutions manual on the companion website Includes

case studies and representative communication system examples such as DVB S GSM UMTS 3GPP LTE Academic Press Library in Mobile and Wireless Communications Katie Wilson, Stephen G. Wilson, 2016-08-04 This book edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in wireless communications and transmission techniques The reader will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Reviews important and emerging topics of research in wireless technology in a quick tutorial format Presents core principles in wireless transmission theory Provides reference content on core principles technologies algorithms and applications Includes comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Posture Recognition for Fall Prevention with Low-Complexity UWB WBANs Robert Heyn, 2023-04-04 In our increasingly interconnected world personalized and technology assisted healthcare has become a rising trend In an ageing society technology enables new ways to care for and assist the elderly Falls pose a major risk and cause of injuries for senior citizens Technology backed fall prevention thus has the potential to avoid severe injuries and further loss of independence but requires continuous monitoring of the body posture in order to identify imminent falls This work presents a system concept for a wearable wireless body area network WBAN for posture monitoring It shows the principal feasibility of posture recognition from ultra wideband UWB signals based on a large and diverse set of measurements For a promising classifier feature combination this work demonstrates how reliable posture recognition can be achieved with a limited number of body mounted nodes and analyzes its robustness towards potential pitfalls It concludes with a proposal for a system implementation and outlines its integration with existing and future aspects of personalized healthcare

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