

Master Thesis OFDM Based Power Line Communication

Power Line Communications Lutz Lampe, Andrea M. Tonello, Theo G. Swart. 2016

Networking Technologies in Smart Healthcare Pooja Singh, Omprakash Kaiwartya, Nidhi Sindhwani, Vishal Jain, Rohit Anand. 2022-12-20 This text provides novel smart network systems, wireless telecommunications infrastructures, and computing capabilities to help healthcare systems using computing techniques like IoT, cloud computing, machine and deep learning Big Data along with smart wireless networks. It discusses important topics, including robotics manipulation and analysis in smart healthcare industries, smart telemedicine framework using machine learning and deep learning, role of UAV and drones in smart hospitals, virtual reality based on 5G/6G and augmented reality in healthcare systems, data privacy and security, nanomedicine, and cloud-based artificial intelligence in healthcare systems. The book: • Discusses intelligent computing through IoT and Big Data in secure and smart healthcare systems. • Covers algorithms, including deterministic algorithms, randomized algorithms, iterative algorithms, and recursive algorithms. • Discusses remote sensing devices in hospitals and local health facilities for patient evaluation and care. • Covers wearable technology applications such as weight control and physical activity tracking for disease prevention and smart healthcare. This book will be useful for senior undergraduate, graduate students, and academic researchers in areas such as electrical engineering, electronics and communication engineering, computer science, and information technology. Discussing concepts of smart networks, advanced wireless communication, and technologies in setting up smart healthcare services, this text will be useful for senior undergraduate, graduate students, and academic researchers in areas such as electrical engineering, electronics and communication engineering, computer science, and information technology. It covers internet of things (IoT) implementation and challenges in healthcare industries, wireless network, and communication-based optimization algorithms for smart healthcare devices.

Millimeter Wave Wireless Communications Theodore S. Rappaport, Robert W. Heath Jr., Robert C. Daniels, James N. Murdock. 2015 The Definitive, Comprehensive Guide to Cutting-Edge Millimeter Wave Wireless Design "This is a great book on mmWave systems that covers many aspects of the technology targeted for beginners all the way to the advanced users. The authors are some of the most credible scholars I know of who are well respected by the industry. I highly recommend studying this book in detail." —Ali Sadri, Ph.D., Sr. Director, Intel Corporation, MCG mmWave Standards and Advanced Technologies Millimeter wave (mmWave) is today's breakthrough frontier for emerging wireless mobile cellular networks, wireless local area networks, personal area networks, and vehicular communications. In the near future, mmWave products, systems, theories, and devices will come together to deliver mobile data rates thousands of times faster than today's existing cellular and WiFi networks. In Millimeter Wave Wireless Communications, four of the field's pioneers draw on their immense experience as researchers, entrepreneurs, inventors, and consultants, empowering engineers at all levels to succeed with mmWave. They deliver exceptionally clear and useful guidance for newcomers, as well as the first complete desk reference for design experts. The authors explain mmWave signal propagation, mmWave circuit design, antenna designs, communication theory, and current standards (including IEEE 802.15.3c, Wireless HD, and ECMA/WiMedia). They cover comprehensive mmWave wireless design issues, for 60 GHz and other mmWave bands, from channel to antenna to receiver, introducing emerging design techniques that will be invaluable for research engineers in both industry and academia. Topics include Fundamentals: communication theory, channel propagation, circuits, antennas, architectures, capabilities, and applications Digital communication: baseband signal/channel models, modulation, equalization, error control coding, multiple input multiple output (MIMO) principles, and hardware architectures Radio wave propagation characteristics: indoor and outdoor applications Antennas/antenna arrays, including on-chip and in-package antennas, fabrication, and packaging Analog circuit design: mmWave transistors, fabrication, and transceiver design approaches Baseband circuit design: multi-gigabit-per-second, high-fidelity DAC and ADC converters Physical layer: algorithmic choices, design considerations, and impairment solutions; and how to overcome clipping, quantization, and nonlinearity Higher-layer design: beam adaptation protocols, relaying, multimedia transmission, and multiband considerations 60 GHz standardization: IEEE 802.15.3c for WPAN, Wireless HD, ECMA-387, IEEE 802.11ad, Wireless Gigabit Alliance (WiGig)

Power Line Communications Lutz Lampe, Andrea M. Tonello, Theo G. Swart. 2016-04-27 This second edition of Power Line Communications will show some adjustments in content including new material on PLC for home and industry, PLC for multimedia, PLC for smart grid and PLC for vehicles. Additional chapters include coverage of Channel Characterization, Electromagnetic Compatibility, Coupling, and Digital Transmission Techniques. This book will provide the reader with a wide coverage of the major developments within the field. With contributions from some of the most active researchers on PLC, the book brings together a wealth of international experts on specific PLC topics.

A Practical Guide to Power-line Communication Christina Vlachou, Sébastien Henri. 2022-05-19 A rigorous description of the theory and practice of power-line communication, which identifies the key characteristics that impact on performance and security. Ideal for university researchers and professional engineers designing PLC or hybrid devices and networks.

Power Line Communications Lutz Lampe, Andrea M. Tonello, Theo G. Swart. 2016-04-14 This second edition of Power Line Communications will show some adjustments in content including new material on PLC for home and industry, PLC for multimedia, PLC for smart grid and PLC for vehicles. Additional chapters include coverage of Channel Characterization, Electromagnetic Compatibility, Coupling, and Digital Transmission Techniques. This book will provide the reader with a wide coverage of the major developments within the field. With contributions from some of the most active researchers on PLC, the book brings together a wealth of international experts on specific PLC topics.

Wireless Information and Power Transfer Derrick Wing Kwan Ng, Trung Q. Duong, Caijun Zhong, Robert Schober. 2019-01-29 em style=mso-bidi-font-style: normal; Wireless Information and Power Transfer offers an authoritative and comprehensive guide to the theory, models, techniques, implementation and application of wireless information and power transfer (WIPT) in energy-constrained wireless communication networks. With contributions from an international panel of experts, this important resource covers the various aspects of WIPT systems such as, system modeling, physical layer techniques, resource allocation and performance analysis. The contributors also explore targeted research problems typically encountered when designing WIPT systems.

The Orthogonal Frequency Division Multiplexing (OFDM). Introduction and explanation of five different types of techniques Dr. Lokesh Chikkananjai. 2021-02-25 Thesis (M.A.) from the year 2019 in the subject Electrotechnology, grade: 9, , language: English, abstract: The Orthogonal Frequency Division Multiplexing (OFDM) is an important aspect of multicarrier digital data transmission system where a single data stream is transmitted into a several number of lower rates subcarrier signals. In this thesis, there are five different types of the techniques introduced to strengthen the communication quality and capacity. This kind of new standard of transmission of data is the first one to perform with OFDM in data packet based communication system. In wireless communication network, the abstraction of parallel transmission of data symbols is implemented to attain high throughput and effective transmission quality. The OFDM is a method to deal with parallel transmission.

Wiley Encyclopedia of Telecommunications .2003

OFDM Based Relay Systems for Future Wireless Communications Milica Pejanovic-Djurisic, Enis Kocan, Ramjee Prasad. 2022-09-01 Relay systems have become a subject of intensive research interest over the recent years, as it is recognized that they can improve performances and extend the coverage area of wireless communication systems. Special attention has been dedicated to them since the proposal appeared for their implementation in mobile cellular systems. Numerous researches conducted after that proposal have enabled incorporation of OFDM based relay systems in both accepted standards for IMT-Advanced systems. Nowadays, researches are ongoing with the aim to define new solutions for performance improvement of the standardized OFDM relay systems for cellular networks and one of the interesting solutions is implementation of subcarrier permutation (SCP) at the relay (R) station. The book OFDM based relay systems for future wireless communications presents a comprehensive research results in analyzing behavior and performance of the OFDM based relay systems with SCP. Dual-hop relay scenario with

three communication terminals, and no direct link between the source (S) and the destination (D) has been analyzed, as it is compliant with the accepted solutions for IMT-Advanced systems. The book includes performance analysis and performance comparison of OFDM based: • amplify-and-forward (AF) relay systems with fixed gain (FG), • amplify-and-forward (AF) relay systems with variable gain (VG), • decode-and-forward (DF) relay systems, each including two SCP schemes, known to maximize the system capacity and/or improve the bit error rate (BER) performances. Performance comparisons have enabled definition of optimal solutions for the future wireless communication systems in a given conditions, and for the given optimality criteria. OFDM based relay systems for future wireless communications contains recent research results in this area and is ideal for the academic staff and master/research students in area of mobile communication systems, as well as for the personnel in communication industry.

Carrier Communication Over Power Lines Heinrich-K. Podszcek.1986 Carrier communication over power lines, like carrier traffic over postal lines, has a tradition of about 50 years. It has become a vital element in electric system operation. Being restricted to power networks, it has a comparatively limited scope. Nevertheless, great efforts are being expended to keep pace with the demands made pending on technical advancement of both power and communication engineering. As in previous editions of this book, it is endeavored in the fourth edition to familiarize the man in the field with the fundamental concepts on which this technique and its practical application are based. The physical and electrical characteristics of the equipment involved are described in a general way. For the sake of clarity, the author has refrained from giving a detailed account or illustrations of special versions, especially as the differences between the equipment supplied by the various manufacturers are so small. This is due to the use of transistors instead of tubes and to the universally adopted plug-in module construction technique. In the load dispatching plants of power supply networks, tele metering systems are turning more and more to data engineering methods and equipment to lighten the task of network management. Consequently, at certain points in the text, topics concerning remote data processing are treated, emphasis being placed on transmission channels operating at a considerably higher speed than was usual 10 years ago.

Power Line Communication Systems for Smart Grids Ivan R.S. Casella, Alagan Anpalagan.2018-11 Power Line Communication (PLC) is a well-established technology that allows the transmission of data through electrical wires. A key advantage of PLC is its low cost of deployment when the electrical wiring infrastructure already exists, enabling it to compete or work in conjunction with wireless technologies. PLC has recently received growing attention and significant investments within the development of the Smart Grid (SG), that in turn requires sophisticated data exchange and communication. This book presents a comprehensive introduction to the principals involved in the use of narrowband and broadband PLC technologies in the SG, and to using these technologies particularly when intermittent renewable energies sources are employed. Chapters cover fundamental concepts of modern digital communications, the main coding techniques, specific characteristics of the PLC channels, the fundamentals of the SG, and the differences between the narrowband and broadband technologies for SG applications. The work covers the main standards and several related state-of-the-art works, as well as some key aspects of the use of renewable energy sources. Power Line Communication Systems for Smart Grids is essential reading for researchers, professionals and graduate students involved with the study and development of PLC systems, SG and related subjects.

The Circuits and Filters Handbook (Five Volume Slipcase Set) Wai-Kai Chen.2018-12-14 Standard-setting, groundbreaking, authoritative, comprehensive—these often overused words perfectly describe The Circuits and Filters Handbook, Third Edition. This standard-setting resource has documented the momentous changes that have occurred in the field of electrical engineering, providing the most comprehensive coverage available. More than 150 contributing experts offer in-depth insights and enlightened perspectives into standard practices and effective techniques that will make this set the first—and most likely the only—tool you select to help you with problem solving. In its third edition, this groundbreaking bestseller surveys accomplishments in the field, providing researchers and designers with the comprehensive detail they need to optimize research and design. All five volumes include valuable information on the emerging fields of circuits and filters, both analog and digital. Coverage includes key mathematical formulas, concepts, definitions, and derivatives that must be mastered to perform cutting-edge research and design. The handbook avoids extensively detailed theory and instead concentrates on professional applications, with numerous examples provided throughout. The set includes more than 2500 illustrations and hundreds of references. Available as a comprehensive five-volume set, each of the subject-specific volumes can also be purchased separately.

Applicability of Automotive Powerline Communication: A Theory- and Practice-based Study Elisabeth Oberleithner.2019

[Performance evaluation of channel estimation techniques for LTE downlink system](#) Kahsay Meresa.

Emulation of Narrowband Powerline Data Transmission Channels and Evaluation of PLC Systems Wenqing Liu.2014-07-21 This work proposes advanced emulation of the physical layer behavior of NB-PLC channels and the application of a channel emulator for the evaluation of NB-PLC systems. In addition, test procedures and reference channels are proposed to improve efficiency and accuracy in the system evaluation and classification. This work shows that the channel emulator-based solution opens new ways toward flexible, reliable and technology-independent performance assessment of PLC modems.

[Flying Ad Hoc Networks](#) Jingjing Wang, Chunxiao Jiang.2022-02-10 Relying on unmanned autonomous flight control programs, unmanned aerial vehicles (UAVs) equipped with radio communication devices have been actively developed around the world. Given their low cost, flexible maneuvering and unmanned operation, UAVs have been widely used in both civilian operations and military missions, including environmental monitoring, emergency communications, express distribution, even military surveillance and attacks, for example. Given that a range of standards and protocols used in terrestrial wireless networks are not applicable to UAV networks, and that some practical constraints such as battery power and no-fly zone hinder the maneuverability capability of a single UAV, we need to explore advanced communication and networking theories and methods for the sake of supporting future ultra-reliable and low-latency applications. Typically, the full potential of UAV network's functionalities can be tapped with the aid of the cooperation of multiple drones relying on their ad hoc networking, in-network communications and coordinated control. Furthermore, some swarm intelligence models and algorithms conceived for dynamic negotiation, path programming, formation flight and task assignment of multiple cooperative drones are also beneficial in terms of extending UAV's functionalities and coverage, as well as of increasing their efficiency. We call the networking and cooperation of multiple drones as the terminology 'flying ad hoc network (FANET)', and there indeed are numerous new challenges to be overcome before the idespread of so-called heterogeneous FANETs. In this book, we examine a range of technical issues in FANETs, from physical-layer channel modeling to MAC-layer resource allocation, while also introducing readers to UAV aided mobile edge computing techniques.

Dissertation Abstracts International .2006

Telecommunication Networks for the Smart Grid Alberto Sendin, Miguel A. Sanchez-Fornie, Inigo Berganza, Javier Simon, Iker Urrutia.2016-07-31 This comprehensive new resource demonstrates how to build smart grids utilizing the latest telecommunications technologies. Readers find practical coverage of PLC and wireless for smart grid and are given concise excerpts of the different technologies, networks, and services around it. Design and planning guidelines are shown through the combination of electricity grid and telecommunications technologies that support the reliability, performance and security requirements needed in smart grid applications. This book covers a wide range of critical topics, including telecommunications for power engineers, power engineering for telecommunications engineers, utility applications projecting in smart grids, technologies for smart grid networks, and telecommunications architecture. This practical reference is supported with in-depth case studies.

MIMO Power Line Communications Lars Torsten Berger, Andreas Schwager, Pascal Pagani, Daniel Schneider.2017-12-19 One of the first publications of its kind in the exciting field of multiple input multiple output (MIMO) power line communications (PLC), MIMO Power Line Communications: Narrow and Broadband Standards, EMC, and Advanced Processing contains contributions from experts in industry and academia, making it practical enough to provide a solid understanding of how PLC technologies work, yet scientific enough to form a base for ongoing R&D activities. This book is subdivided into five thematic parts. Part I looks at narrow- and broadband channel characterization based on measurements

from around the globe. Taking into account current regulations and electromagnetic compatibility (EMC), part II describes MIMO signal processing strategies and related capacity and throughput estimates. Current narrow- and broadband PLC standards and specifications are described in the various chapters of part III. Advanced PLC processing options are treated in part IV, drawing from a wide variety of research areas such as beamforming/precoding, time reversal, multi-user processing, and relaying. Lastly, part V contains case studies and field trials, where the advanced technologies of tomorrow are put into practice today. Suitable as a reference or a handbook, MIMO Power Line Communications: Narrow and Broadband Standards, EMC, and Advanced Processing features self-contained chapters with extensive cross-referencing to allow for a flexible reading path.

New Directions in Wireless Communications Systems Athanasios G. Kanatas, Konstantina S. Nikita, Panagiotis (Takis) Mathiopoulos. 2017-10-16 Beyond 2020, wireless communication systems will have to support more than 1,000 times the traffic volume of today's systems. This extremely high traffic load is a major issue faced by 5G designers and researchers. This challenge will be met by a combination of parallel techniques that will use more spectrum more flexibly, realize higher spectral efficiency, and densify cells. Novel techniques and paradigms must be developed to meet these goals. The book addresses diverse key-point issues of next-generation wireless communications systems and identifies promising solutions. The book's core is concentrated to techniques and methods belonging to what is generally called radio access network.

Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards. 2008 Theses on any subject submitted by the academic libraries in the UK and Ireland.

Broadband Power-line Communications Systems Justinian Anatory, Nelson Theethayi. 2010 This book covers topics that include classification of BPLC systems, models for analyses based on TL theory, estimation of channel capacity and performance and finally application of modulation, coding and media access control techniques for boosting the performance of BPLC systems. It will be of interest to graduates and practicing engineers.

Wireless Communications for Power Substations: RF Characterization and Modeling Basile L. Agba, Fabien Sacuto, Minh Au, Fabrice Labeau, François Gagnon. 2018-06-08 This book consists of the identification, characterization, and modeling of electromagnetic interferences in substations for the deployment of wireless sensor networks. The authors present in chapter 3 the measurement setup to record sequences of impulsive noise samples in the ISM band of interest. The setup can measure substation impulsive noise, in wide band, with enough samples per time window and enough precision to allow a statistical study of the noise. During the measurement campaign, the authors recorded around 120 noise sequences in different substations and for four ranges of equipment voltage, which are 25 kV, 230 kV, 315 kV and 735 kV. A characterization process is proposed, by which physical characteristics of partial discharge can be measured in terms of first- and second-order statistics. From the measurement campaign, the authors infer the characteristics of substation impulsive noise as a function of the substation equipment voltage, and can provide representative parameters for the four voltage ranges and for several existing impulsive noise models. The authors investigate in chapters 4 and 5 the modeling of electromagnetic interferences caused by partial discharge sources. First, the authors propose a complete and coherent approach model that links physical characteristics of high-voltage installations to the induced radio-interference spectra of partial discharge sources. The goodness-of-fit of the proposed physical model has been measured based on some interesting statistical metrics. This allows one to assess the effectiveness of the authors' approach in terms of first- and second-order statistics. Chapter 6 proposes a model based on statistical approach. Indeed, substation impulsive noise is composed of correlated impulses, which would require models with memory in order to replicate a similar correlation. Among different models, we have configured a Partitioned Markov Chain (PMC) with 19 states (one state for the background noise and 18 states for the impulse); this Markov-Gaussian model is able to generate impulsive noise with correlated impulse samples. The correlation is observable on the impulse duration and the power spectrum of the impulses. Our PMC model provides characteristics that are more similar to the characteristics of substation impulsive noise in comparison with other models, in terms of time and frequency response, as well as Probability Density Functions (PDF). Although PMC represents reliably substation impulsive noise, the model remains complex in terms of parameter estimation due to a large number of Markov states, which can be an obstacle for future wireless system design. In order to simplify the model, the authors decrease the number of states to 7 by assigning one state to the background noise and 6 states to the impulse and we call this model PMC-6. PMC-6 can generate realistic impulses and can be easily implemented in a receiver in order to mitigate substation impulsive noise. Representative parameters are provided in order to replicate substation impulsive noise for different voltage ranges (25-735 kV). Chapter 7, a generalized radio-noise model for substations is proposed, in which there are many discharges sources that are randomly distributed over space and time according to the Poisson field of interferers approach. This allows for the identification of some interesting statistical properties of moments, cumulants and probability distributions. These can, in turn, be utilized in signal processing algorithms for rapid partial discharge's identification, localization, and impulsive noise mitigation techniques in wireless communications in substations. The primary audience for this book is the electrical and power engineering industry, electricity providers and companies who are interested in substation automation systems using wireless communication technologies for smart grid applications. Researchers, engineers and students studying and working in wireless communication will also want to buy this book as a reference.

Wireless Communication and Sensor Network Salah Bourennane. 2016-06-29 This proceedings volume collects the most up-to-date, comprehensive and state-of-the-art knowledge on wireless communication, sensor network, network technologies, services and application. Written by world renowned researchers, each chapter is original in content, featuring high-impact presentations and late-breaking contributions. Researchers and practitioners will find this edition a useful resource material and an inspirational read. Contents: Wireless Communications Network Technologies Services and Application Readership: Researchers, academics, professionals and graduate students in neural networks/networking, electrical & electronic engineering, and condensed matter physics.

Compressive Sensing in Healthcare Mahdi Khosravy, Nilanjan Dey, Carlos A. Duque. 2020-05-18 Compressive Sensing in Healthcare, part of the Advances in Ubiquitous Sensing Applications for Healthcare series gives a review on compressive sensing techniques in a practical way, also presenting deterministic compressive sensing techniques that can be used in the field. The focus of the book is on healthcare applications for this technology. It is intended for both the creators of this technology and the end users of these products. The content includes the use of EEG and ECG, plus hardware and software requirements for building projects. Body area networks and body sensor networks are explored. Provides a toolbox for compressive sensing in health, presenting both mathematical and coding information Presents an intuitive introduction to compressive sensing, including MATLAB tutorials Covers applications of compressive sensing in health care

Smart and Sustainable Engineering for Next Generation Applications Peter Fleming, Beatrys Margaretha Lacquet, Saeid Sanei, Kalyanmoy Deb, Andreas Jakobsson. 2019-05-08 This book reports on advanced theories and methods in two related engineering fields: electrical and electronic engineering, and communications engineering and computing. It highlights areas of global and growing importance, such as renewable energy, power systems, mobile communications, security and the Internet of Things (IoT). The contributions cover a number of current research issues, including smart grids, photovoltaic systems, wireless power transfer, signal processing, 4G and 5G technologies, IoT applications, mobile cloud computing and many more. Based on the proceedings of the Second International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM 2018), held in Mauritius from November 28 to 30, 2018, the book provides graduate students, researchers and professionals with a snapshot of the state-of-the-art and a source of new ideas for future research and collaborations.

OFDM for Wireless Multimedia Communications Richard van Nee, Ramjee Prasad. 2000 OFDM for Wireless Multimedia Communications is the first book to take a comprehensive look at OFDM, including a comparison with other forms of single carrier modulation methods. This timely and practical new volume provides the design guidelines you need to maximize benefits from this important new technology.

Power Line Communications Hendrik C. Ferreira, Lutz Lampe, John Newbury, Theo G. Swart. 2011-07-22 Power Line Communications (PLC) is a promising emerging technology, which has attracted much attention due to the wide availability of power distribution lines. This book provides a thorough introduction to the use of power lines for communication purposes, ranging from channel characterization, communications on the physical

layer and electromagnetic interference, through to protocols, networks, standards and up to systems and implementations. With contributions from many of the most prominent international PLC experts from academia and industry, Power Line Communications brings together a wealth of information on PLC specific topics that provide the reader with a broad coverage of the major developments within the field. Acts as a single source reference guide to PLC collating information that is widely dispersed in current literature, such as in research papers and standards. Covers both the state of the art, and ongoing research topics. Considers future developments and deployments of PLC

International Conference on Computer Applications 2012 :: Volume 03 Kokula Krishna Hari K.

Ofdm Based Relay Systems for Future Wireless Communications Milica Pejanovic-Djurisic, Enis Kocan, Ramjee Prasad. 2022-09-01 Relay systems have become a subject of intensive research interest over the recent years, as it is recognized that they can improve performances and extend the coverage area of wireless communication systems. Special attention has been dedicated to them since the proposal appeared for their implementation in mobile cellular systems. Numerous researches conducted after that proposal have enabled incorporation of OFDM based relay systems in both accepted standards for IMT-Advanced systems. Nowadays, researches are ongoing with the aim to define new solutions for performance improvement of the standardized OFDM relay systems for cellular networks and one of the interesting solutions is implementation of subcarrier permutation (SCP) at the relay (R) station. The book OFDM based relay systems for future wireless communications presents a comprehensive research results in analyzing behavior and performance of the OFDM based relay systems with SCP. Dual-hop relay scenario with three communication terminals, and no direct link between the source (S) and the destination (D) has been analyzed, as it is compliant with the accepted solutions for IMT-Advanced systems. The book includes performance analysis and performance comparison of OFDM based: • amplify-and-forward (AF) relay systems with fixed gain (FG), • amplify-and-forward (AF) relay systems with variable gain (VG), • decode-and-forward (DF) relay systems, each including two SCP schemes, known to maximize the system capacity and/or improve the bit error rate (BER) performances. Performance comparisons have enabled definition of optimal solutions for the future wireless communication systems in a given conditions, and for the given optimality criteria. OFDM based relay systems for future wireless communications contains recent research results in this area and is ideal for the academic staff and master/research students in area of mobile communication systems, as well as for the personnel in communication industry.

Passive, Active, and Digital Filters Wai-Kai Chen. 2018-10-08 Upon its initial publication, The Circuits and Filters Handbook broke new ground. It quickly became the resource for comprehensive coverage of issues and practical information that can be put to immediate use. Not content to rest on his laurels, in addition to updating the second edition, editor Wai-Kai Chen divided it into tightly-focused texts that made the information easily accessible and digestible. These texts have been revised, updated, and expanded so that they continue to provide solid coverage of standard practices and enlightened perspectives on new and emerging techniques. Passive, Active, and Digital Filters provides an introduction to the characteristics of analog filters and a review of the design process and the tasks that need to be undertaken to translate a set of filter specifications into a working prototype. Highlights include discussions of the passive cascade synthesis and the synthesis of LCM and RC one-port networks; a summary of two-port synthesis by ladder development; a comparison of the cascade approach, the multiple-loop feedback topology, and ladder simulations; an examination of four types of finite wordlength effects; and coverage of methods for designing two-dimensional finite-extent impulse response (FIR) discrete-time filters. The book includes coverage of the basic building blocks involved in low- and high-order filters, limitations and practical design considerations, and a brief discussion of low-voltage circuit design. Revised Chapters: Sensitivity and Selectivity Switched-Capacitor Filters FIR Filters IIR Filters VLSI Implementation of Digital Filters Two-Dimensional FIR Filters Additional Chapters: 1-D Multirate Filter Banks Directional Filter Banks Nonlinear Filtering Using Statistical Signal Models Nonlinear Filtering for Image Denoising Video Demosaicking Filters This volume will undoubtedly take its place as the engineer's first choice in looking for solutions to problems encountered when designing filters.

Carrier Communication Over Power Lines. Gerhard Dressler, H. K. Podszcek. 1963

Electrical Power Transmission System Engineering Turan Gonen. 2011-03-23 Although many textbooks deal with a broad range of topics in the power system area of electrical engineering, few are written specifically for an in-depth study of modern electric power transmission. Drawing from the author's 31 years of teaching and power industry experience, in the U.S. and abroad, *Electrical Power Transmission System Engineering: Analysis and Design, Second Edition* provides a wide-ranging exploration of modern power transmission engineering. This self-contained text includes ample numerical examples and problems, and makes a special effort to familiarize readers with vocabulary and symbols used in the industry. Provides essential impedance tables and templates for placing and locating structures Divided into two sections—electrical and mechanical design and analysis—this book covers a broad spectrum of topics. These range from transmission system planning and in-depth analysis of balanced and unbalanced faults, to construction of overhead lines and factors affecting transmission line route selection. The text includes three new chapters and numerous additional sections dealing with new topics, and it also reviews methods for allocating transmission line fixed charges among joint users. Uniquely comprehensive, and written as a self-tutorial for practicing engineers or students, this book covers electrical and mechanical design with equal detail. It supplies everything required for a solid understanding of transmission system engineering.

Constant Envelope OFDM Phase Modulation Steve Charles Thompson. 2005

Cyclostationary Processes and Time Series Antonio Napolitano. 2019-10-24 Many processes in nature arise from the interaction of periodic phenomena with random phenomena. The results are processes that are not periodic, but whose statistical functions are periodic functions of time. These processes are called cyclostationary and are an appropriate mathematical model for signals encountered in many fields including communications, radar, sonar, telemetry, acoustics, mechanics, econometrics, astronomy, and biology. *Cyclostationary Processes and Time Series: Theory, Applications, and Generalizations* addresses these issues and includes the following key features. Presents the foundations and developments of the second- and higher-order theory of cyclostationary signals Performs signal analysis using both the classical stochastic process approach and the functional approach for time series Provides applications in signal detection and estimation, filtering, parameter estimation, source location, modulation format classification, and biological signal characterization Includes algorithms for cyclic spectral analysis along with Matlab/Octave code Provides generalizations of the classical cyclostationary model in order to account for relative motion between transmitter and receiver and describe irregular statistical cyclicity in the data

Avoiding Effects of OFDM Adjacent Channel Interference by Using Combinations of Modulation Schemes Le Tien Anh. 2009-05 Master's Thesis from the year 2008 in the subject Engineering - Communication Technology, grade: erfolgreich bestanden, Keio University (Graduate school of Science and Technology - School of Science for Open and Environmental Systems), language: English, abstract: Non-orthogonality among adjacent OFDM channels creates OFDM adjacent channel interference and it heavily affects the entire system's performance. Conventional methods to avoid OFDM adjacent channel interference are not only insufficient but also are wasting a lot of frequency resources. In this research, a method using combinations of modulation schemes is proposed to avoid effects of OFDM adjacent channel interference. It can be obtained by modulating the sub-carriers at the outer sides of an OFDM channel with lower order modulation schemes (such as BPSK or QPSK), while modulating the sub-carriers at the inner side of the OFDM channel with higher order modulation schemes (such as 16QAM or 64QAM). Intensive simulations have been carried out to evaluate the performance of the proposed method. The simulation results have shown an increase in the OFDM system's resistance against adjacent channel interference while still maintain the bandwidth efficiency.

RF Analog Impairments Modeling for Communication Systems Simulation Lydi Smaini. 2012-09-04 With the growing complexity of personal mobile communication systems demanding higher data-rates and high levels of integration using low-cost CMOS technology, overall system performance has become more sensitive to RF analog front-end impairments. Designing integrated transceivers requires a thorough understanding of the whole transceiver chain including RF analog front-end and digital baseband. Communication system engineers have to include RF analog imperfections in their simulation benches in order to study and quantify their impact on the system performance. Here the author explores key RF analog impairments in a transceiver and demonstrates how to model their impact from a communication system design view-point. He discusses the design

aspects of the front end of transceivers (both receivers and transmitters) and provides the reader with a way to optimize a complex mixed-signal platform by taking into account the characteristics of the RF/analog front-end. Key features of this book include: Practical examples illustrated by system simulation results based on WiFi and mobile WiMAX OFDM transceivers An overview of the digital estimation and compensation of the RF analog impairments such as power amplifier distortion, quadrature imbalance, and carrier and sampling frequency offsets An exposition of the challenges involved in the design of both RF analog circuits and DSP communication circuits in deep submicron CMOS technology MATLAB® codes for RF analog impairments models hosted on the companion website Uniquely the book bridges the gap between RFIC design specification needs and communication systems simulation, offering readers RF analog impairments modeling knowledge and a comprehensive approach to unifying theory and practice in system modelling. It is of great value to communication systems and DSP engineers and graduate students who design communication processing engines, RF/analog systems and IC design engineers involved in the design of communication platforms.

Wiley Encyclopedia of Telecommunications, Volume 4 John G. Proakis.2003 Contains 275 tutorial articles focused on modern telecommunications topics. The contents include articles on communication networks, source coding and decoding, channel coding and decoding, modulation and demodulation, optical communications, satellite communications, underwater acoustic communications, radio propagation, antennas, multiuser communications, magnetic storage systems, and a variety of standards--V.1, p. v.

Broadband Powerline Communications Halid Hrasnica,Abdelfatteh Haidine,Ralf Lehnert.2005-01-14 Broadband Powerline Communications: Network Design covers the applications of broadband PLC systems in low-voltage supply networks, a promising candidate for the realization of cost effective solutions for "last mile" communications networks. There are many activities surrounding the development and application of PLC technology in the access area, particularly because of strong interest of new network providers after the deregulation of telecommunications market. Nowadays, there are no existing standards for broadband PLC networks, which use a frequency range up to 30 MHz. This book includes relevant and timely information regarding broadband PLC systems and especially PLC access networks and contributions to the design aspects of broadband PLC access systems and their network components. This book: Offers explanations on how broadband PLC networks are realized, what the important characteristics for the transmission on electrical power grids are, and which implementation solutions have been recently considered for the realization of broadband PLC systems. Considers various system realizations, disturbance scenarios and their impact the transmission in PLC networks, electro-magnetic compatibility, applied modulation schemes, coding, and error handling methods. Pays particular attention to the specifics of the PLC MAC layer and its protocols, as well as the modelling and performance evaluation of broadband PLC networks.

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