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KEY=MICROWAVE - LORELAI OSBORNE

MICROWAVE RADIO LINKS

FROM THEORY TO DESIGN

Wiley-Interscience [Table of contents](#)

ADVANCES IN MULTIUSER DETECTION

[John Wiley & Sons](#) **A Timely Exploration of Multiuser Detection in Wireless Networks** During the past decade, the design and development of current and emerging wireless systems have motivated many important advances in multiuser detection. This book fills an important need by providing a comprehensive overview of crucial recent developments that have occurred in this active research area. Each chapter is contributed by noted experts and is meant to serve as a self-contained treatment of the topic. Coverage includes: Linear and decision feedback methods Iterative multiuser detection and decoding Multiuser detection in the presence of channel impairments Performance analysis with random signatures and channels Joint detection methods for MIMO channels Interference avoidance methods at the transmitter Transmitter precoding methods for the MIMO downlink This book is an ideal entry point for exploring ongoing research in multiuser detection and for learning about the field's existing unsolved problems and issues. It is a valuable resource for researchers, engineers, and graduate students who are involved in the area of digital communications.

POLICY-DRIVEN MOBILE AD HOC NETWORK MANAGEMENT

[John Wiley & Sons](#) "This book should be immensely interesting to those trying to decide what MANET research is worth undertaking and why." -J. Christopher Ramming, Program Manager, Defense Advanced Research Projects Agency (DARPA) Strategic Technology Office A thorough, comprehensive treatment of mobile ad hoc network management Mobile ad hoc networking is a hot topic, gaining importance in both commercial and military arenas. Now that the basics in the field have settled and standards are emerging, the time is right for a book on management of these networks. From two experts in the field, Policy-Driven Mobile Ad hoc Network Management provides comprehensive coverage of the management challenges associated with mobile ad hoc networks(MANETs) and includes an in-depth discussion of how policy-based network management can be used for increasing automation in the management of mobile ad hoc networks. This book provides readers with a complete understanding of mobile ad hoc network management and many related topics, including: ?Network management requirements for MANETs, with an emphasis on the differences between the management requirements for MANETs as compared to static, wireline networks ?The use of policies for managing MANETs to increase automation and to tie together management components via policies ?Policy conflict detection and resolution ?Aspects of MANETs that need to be configured and reconfigured at all layers of the protocol stack ?Methodologies for providing survivability in the face of both hard and soft failures in MANETs ?The components of a Quality of Service (QoS) management solution for MANETs based on the widely used Differentiated Services (DiffServ) paradigm ?Important open research issues in the area of MANET management Policy-Driven Mobile Ad hoc Network Management is an ideal resource for professionals, researchers, and advanced graduate students in the field of IP network management who are interested in mobile ad hoc networks.

ULTRA-WIDEBAND COMMUNICATIONS SYSTEMS

MULTIBAND OFDM APPROACH

[John Wiley & Sons](#) **The only book that provides full coverage of UWB multiband OFDM technology** Ultra-wideband (UWB) has emerged as a technology that offers great promise to satisfy the growing demand for low-cost, high-speed digital networks. The enormous bandwidth available, the potential for high data rates, and the promise for small size and low processing power with reduced implementation cost all present a unique opportunity for UWB to become a widely adopted radio solution for future wireless home networking technology. Ultra-Wideband Communications Systems is the first book to provide comprehensive coverage of the fundamental and advanced issues related to UWB technology, with a particular focus on multiband orthogonal frequency division multiplexing (multiband OFDM). The multiband OFDM approach was a leading method in the IEEE 802.15.3standard and has recently been standardized by ECMA International. The book also explores several major advanced state-of-the-art technologies to enhance the performance of the standardized multiband OFDM approach. Additional coverage includes: * Characteristics of UWB channels * An overview of UWB single-band and multiband OFDM approaches * MIMO multiband OFDM * Performance characterization * Performance under practical considerations * Differential multiband OFDM * Power-controlled channel allocation * Cooperative UWB multiband OFDM Complete with pointers for future research opportunities to enhance the performance of UWB multiband OFDM technology over current and future wireless networks, this is an indispensable resource for graduate students, engineers, and academic and industrial researchers involved with UWB.

SIGNALING IN TELECOMMUNICATION NETWORKS

[John Wiley & Sons](#) **Guidance to help you grasp even the most complex network structures and signaling protocols** The Second Edition of Signaling in Telecommunication Networks has been thoroughly updated, offering new chapters and sections that cover the most recent developments in signaling systems and procedures. This acclaimed book covers subscriber and network signaling in both fixed and mobile networks. Coverage begins with an introduction to circuit-switched telephone networks, including an examination of trunks, exchanges, access systems, transmission systems, and other basic components. Next, the authors introduce signaling concepts, beginning with older Channel Associated Signaling (CAS) systems and progressing to today's Common Channel Signaling (CCS) systems. The book then examines packet networks and their use in transmitting voice (VoIP), TCP/IP protocols, VoIP signaling protocols, and ATM protocols. Throughout the book, the authors emphasize functionality, particularly the roles of individual protocols and how they fit in network architectures, helping readers grasp even the most complex network structures and signaling protocols. Highlights of the Second Edition include: Coverage of the latest developments and topics, including new chapters on access networks, intelligent network application part, signaling for voice communication in packet networks, and ATM signaling Drawings and tables that help readers understand and visualize complex systems Comprehensive, updated references for further study Examples to help readers make the bridge from theory to application With the continued growth and expansion of the telecommunications industry, the Second Edition is essential reading for telecommunications students as well as anyone involved in this dynamic industry needing a solid understanding of the different signaling systems and how they work. Moreover, the book helps readers wade through the voluminous and complex technical standards by providing the essential structure, terminology, and functionality needed to understand them.

TELECOMMUNICATION SYSTEM ENGINEERING

[John Wiley & Sons](#) **From the review of the Third Edition: "A must for anyone in volved in the practical aspects of the telecommunications industry."** —CHOICE Outlines the expertise essential to the successful operation and design of every type of telecommunications networks in use today New edition is fully revised and expanded to present authoritative coverage of the important developments that have taken place since the previous edition was published Includes new chapters on hot topics such as cellular radio, asynchronous transfer mode, broadband technologies, and network management

MICROWAVE JOURNAL

WIRELESS INFORMATION NETWORKS

[John Wiley & Sons](#) "Wireless Information Networks takes a systems engineering approach: technical topics are presented in the context of how they fit into the ongoing development of new systems and services, as well as the recent developments in national and international spectrum allocations and standards. The authors have organized they myriad of current and emerging wireless technologies into logical categories."--Jacket.

DIGITAL COMMUNICATION OVER FADING CHANNELS

[Wiley-IEEE Press](#) [Publisher Description](#)

ROBUST ADAPTIVE BEAMFORMING

[Wiley-Interscience](#) The latest research and developments in robust adaptive beamforming Recent work has made great strides toward devising robust adaptive beamformers that vastly improve signal strength against background noise and directional interference. This dynamic technology has diverse applications, including radar, sonar, acoustics, astronomy, seismology, communications, and medical imaging. There are also exciting emerging applications such as smart antennas for wireless communications, handheld ultrasound imaging systems, and directional hearing aids. Robust Adaptive Beamforming compiles the theories and work of leading researchers investigating various approaches in one comprehensive volume. Unlike previous efforts, these pioneering studies are based on theories that use an uncertainty set of the array steering vector. The researchers define their theories, explain their methodologies, and present their conclusions. Methods presented include: Coupling the standard Capon beamformers with a spherical or ellipsoidal uncertainty set of the array steering vector Diagonal loading for finite sample size beamforming Mean-squared error beamforming for signal estimation Constant modulus beamforming Robust wideband beamforming using a steered adaptive beamformer to adapt the weight vector within a generalized sidelobe canceller formulation Robust Adaptive Beamforming provides a truly up-to-date resource and reference for engineers, researchers, and graduate students in this promising, rapidly expanding field.

THE BRITISH NATIONAL BIBLIOGRAPHY

FORTHCOMING BOOKS

BOOK REVIEW INDEX

Every 3rd issue is a quarterly cumulation.

MICROWAVE ASSISTED ORGANIC SYNTHESIS

[John Wiley & Sons](#) The first reports on the application of microwaves in organicsynthesis date back to 1986, but it was not until the recentintroduction of specifically designed and constructed equipment,which countered the safety and reproducibility concerns, thatsynthetic application of microwaves has become established as alaboratory technique. Microwave assisted synthesis is now beingadopted in many industrial and academic laboratories to takeadvantage of the novel chemistry that can be carried out using avariety of organic reaction types. This book demonstrates the underlying principles of microwavedielectric heating and, by reference to a range of organic reactiontypes, it's effective use in synthetic organic chemistry. Toillustrate the impact microwave assisted organic synthesis can haveon chemical research, case studies drawn mainly from thepharmaceutical industry are presented.

AMERICAN BOOK PUBLISHING RECORD CUMULATIVE 1998

ANALYSIS AND DESIGN OF TRANSMITARRAY ANTENNAS

[Morgan & Claypool Publishers](#) In recent years, transmitarray antennas have attracted growing interest with many antenna researchers. Transmitarrays combines both optical and antenna array theory, leading to a low profile design with high gain, high radiation efficiency, and versatile radiation performance for many wireless communication systems. In this book, comprehensive analysis, new methodologies, and novel designs of transmitarray antennas are presented. Detailed analysis for the design of planar space-fed array antennas is presented. The basics of aperture field distribution and the analysis of the array elements are described. The radiation performances (directivity and gain) are discussed using array theory approach, and the impacts of element phase errors are demonstrated. The performance of transmitarray design using multilayer frequency selective surfaces (M-FSS) approach is carefully studied, and the transmission phase limit which are generally independent from the selection of a specific element shape is revealed. The maximum transmission phase range is determined based on the number of layers, substrate permittivity, and the separations between layers. In order to reduce the transmitarray design complexity and cost, three different methods have been investigated. As a result, one design is performed using quad-layer cross-slot elements with no dielectric material and another using triple-layer spiral dipole elements. Both designs were fabricated and tested at X-Band for deep space communications. Furthermore, the radiation pattern characteristics were studied under different feed polarization conditions and oblique angles of incident field from the feed. New design methodologies are proposed to improve the bandwidth of transmitarray antennas through the control of the transmission phase range of the elements. These design techniques are validated through the fabrication and testing of two quad-layer transmitarray antennas at Ku-band. A single-feed quad-beam transmitarray antenna with 50 degrees elevation separation between the beams is investigated, designed, fabricated, and tested at Ku-band. In summary, various challenges in the analysis and design of transmitarray antennas are addressed in this book. New methodologies to improve the bandwidth of transmitarray antennas have been demonstrated. Several prototypes have been fabricated and tested, demonstrating the desirable features and potential new applications of transmitarray antennas.

POLYOLEFIN COMPOUNDS AND MATERIALS

FUNDAMENTALS AND INDUSTRIAL APPLICATIONS

[Springer](#) This book describes industrial applications of polyolefins from the researchers' perspective. Polyolefins constitute today arguably the most important class of polymers and polymeric materials for widespread industrial applications. This book summarizes the present state of the art. Starting from fundamental aspects, such as the polymerization techniques to synthesize polyolefins, the book introduces the topic. Basic knowledge about polyolefin composites and blends is explained, before applications aspects in different industry sectors are discussed. The spectrum comprises a wide range of applications and industry sectors, such as the packaging and food industry, the textile industry, automotive and buildings, and even biomedical applications. Topics, which are addressed in the various chapters, comprise synthesis and processing of the materials; their classification; mechanical, physical and technical requirements and properties; their characterization; and many more. In the end of the book, even the disposal, degradation and recycling of polyolefins are addressed, and light is shed on their commercial significance and economic value. In this way, the book follows the entire 'lifetime' of polyolefin compounds and materials: from their synthesis and processing, over applications, to the recycling and reuse of disposed or degraded polyolefin substrates.

GREEN EXTRACTION OF NATURAL PRODUCTS

THEORY AND PRACTICE

[John Wiley & Sons](#) Extraction processes are essential steps in numerous industrial applications from perfume over pharmaceutical to fine chemical industry. Nowadays, there are three key aspects in industrial extraction processes: economy and quality, as well as environmental considerations. This book presents a complete picture of current knowledge on green extraction in terms of innovative processes, original methods, alternative solvents and safe products, and provides the necessary theoretical background as well as industrial application examples and environmental impacts. Each chapter is written by experts in the field and the strong focus on green chemistry throughout the book makes this book a unique reference source. This book is intended to be a first step towards a future cooperation in a new extraction of natural products, built to improve both fundamental and green parameters of the techniques and to increase the amount of extracts obtained from renewable resources with a minimum consumption of energy and solvents, and the maximum safety for operators and the environment.

REFERENCE MANUAL FOR TELECOMMUNICATIONS ENGINEERING, 2 VOLUME SET

[Wiley-Interscience](#) Contains a compendium of the most frequently used data in day-to-day telecommunications engineering work: tables, graphs, figures, formulae, nomograms, performance curves, standards highlights, constants and statistics. Designed for easy and rapid access. Comprehensive reference for designing, building, purchasing, using or maintaining all kinds of telecommunications systems. Central source of information on transmission, switching, traffic engineering, numbering, signaling, noise, modulation and forward error correction.

ANALYSIS OF RADOME-ENCLOSED ANTENNAS

[Artech House](#) This title provides a current, comprehensive overview of the design and analysis of radomes. The second edition includes a wealth of new material, including three new chapters on radome measurement techniques, environmental effects on radomes, and new radome technology. This unique book helps you to design radomes for top performance, understand the effect a radome has on a particular antennaOCOs operation, and become knowledgeable about how to specify acceptable radome equipment. Over 130 illustrations and more than 250 equations support key topics throughout the book."

GREEN TECHNOLOGIES

BRIDGING CONVENTIONAL PRACTICES AND INDUSTRY 4.0

[MDPI](#) Green technologies can be identified as key components in Industry 4.0. The scope of this book is to address how conventional green technologies can be a part of smart industries by minimizing waste, maximizing productivity, optimizing the supply chain, or by additive manufacturing. This theme focuses on the scope and challenges of integrating current environmental technologies in future industries. This book, "Green Technologies: Bridging Conventional Practices and Industry 4.0", aims to incorporate and introduce the advances in green technologies to the cyber-based industries. It is hoped that the novel green technologies presented in this book are useful in assisting the global community in working towards fulfilling the Sustainable Development Goals.

GERMAN BOOKS IN PRINT

SOLID DIELECTRIC HORN ANTENNAS

[Artech House Publishers](#) The role of dielectric antennas in advanced wireless telecom systems design is becoming more and more important, particularly due to the increasing use of higher radiowave frequencies. This unique new reference helps you strengthen your understanding of the underlying principles, design criteria and procedures, and radiation mechanisms associated with the various types of dielectric antennas in use today.

2021 TELECOMS CONFERENCE (CONFTELE)

Conference on Telecommunications

FUNDAMENTALS OF SIGNALS AND SYSTEMS USING MATLAB

[Macmillan College](#) This text presents an accessible yet comprehensive analytical treatment of signals and systems, and also incorporates a strong emphasis on solving problems and exploring concepts using MATLAB

DIELECTRIC CONSTANT AND LOSS DATA

This report includes data on high temperature organic crystals, ceramics, and glasses. Additional sections include plastic materials with less heat resistance. (P.S.-PL).

COMMUNICATION SATELLITES FOR EDUCATION, SCIENCE AND CULTURE

ASEPTOLIN

DIGITAL TRANSMISSION SYSTEMS

[Springer Science & Business Media](#) Digital Transmission Systems, Third Edition, is a comprehensive overview of the theory and practices of digital transmission systems used in digital communication. This new edition has been completely updated to include the latest technologies and newest techniques in the transmission of digitized information as well as coverage of digital transmission design, implementation and testing.

BOWSER THE HOUND

[Courier Corporation](#) Bowser the Hound, outsmarted so often by Old Man Coyote, is taken advantage of once again when the coyote leads him on a long chase that ends far from the canine's home.

CONFRONTING THE CLIMATE CHALLENGE

U.S. POLICY OPTIONS

[Columbia University Press](#) Without significant reductions of greenhouse gas emissions, climate change will cause substantial damage to the environment and the economy. The scope of the threat demands a close look at the policies capable of reducing the harm. *Confronting the Climate Challenge* presents a unique framework for evaluating the impacts of a range of U.S. climate-policy options, both for the economy overall and for particular household groups, industries, and regions. Lawrence Goulder and Marc Hafstead focus on four alternative approaches for reducing carbon dioxide emissions: a revenue-neutral carbon tax, a cap-and-trade program, a clean energy standard, and an increase in the federal gasoline tax. They demonstrate that these policies—if designed correctly—not only can achieve emissions reductions at low cost but also can avoid placing undesirable burdens on low-income household groups or especially vulnerable industries. Goulder and Hafstead apply a multiperiod, economy-wide general equilibrium model that is distinct in its

attention to investment dynamics and to interactions between climate policy and the tax system. Exploiting the unique features of the model, they contrast the shorter- and longer-term policy impacts and focus on alternative ways of feeding back—or “recycling”—policy-generated revenues to the private sector. Their work shows how careful policy design, including the judicious use of policy-generated revenues, can achieve desired reductions in carbon dioxide emissions at low cost, avoid uneven impacts across household income groups, and prevent losses of profit in the most vulnerable U.S. industries. The urgency of the climate problem demands comprehensive action, and *Confronting the Climate Challenge* offers important insights that can help elevate policy discussions and spur needed efforts on the climate front.

MICROWAVE CIRCUIT MODELING USING ELECTROMAGNETIC FIELD SIMULATION

[Artech House](#) Annotation This practical "how to" book is an ideal introduction to electromagnetic field-solvers. Where most books in this area are strictly theoretical, this unique resource provides engineers with helpful advice on selecting the right tools for their RF (radio frequency) and high-speed digital circuit design work

CELL-BASED THERAPIES FOR STROKE: PROMISING SOLUTION OR DEAD END?

[Frontiers Media SA](#)

MICROWAVE HORNS AND FEEDS

[IET](#) This monograph is devoted to the theory, design, performance and application of microwave horns and feeds for reflector antennas. It is a collaboration between the microwave antenna group at Queen Mary and Westfield College and the electromagnetic group at the University of Winnipeg, Canada.

MASS AND MOTION IN GENERAL RELATIVITY

[Springer Science & Business Media](#) From the infinitesimal scale of particle physics to the cosmic scale of the universe, research is concerned with the nature of mass. While there have been spectacular advances in physics during the past century, mass still remains a mysterious entity at the forefront of current research. Our current perspective on gravitation has arisen over millennia, through the contemplation of falling apples, lift thought experiments and notions of stars spiraling into black holes. In this volume, the world's leading scientists offer a multifaceted approach to mass by giving a concise and introductory presentation based on insights from their respective fields of research on gravity. The main theme is mass and its motion within general relativity and other theories of gravity, particularly for compact bodies. Within this framework, all articles are tied together coherently, covering post-Newtonian and related methods as well as the self-force approach to the analysis of motion in curved space-time, closing with an overview of the historical development and a snapshot on the actual state of the art. All contributions reflect the fundamental role of mass in physics, from issues related to Newton's laws, to the effect of self-force and radiation reaction within theories of gravitation, to the role of the Higgs boson in modern physics. High-precision measurements are described in detail, modified theories of gravity reproducing experimental data are investigated as alternatives to dark matter, and the fundamental problem of reconciling any theory of gravity with the physics of quantum fields is addressed. Auxiliary chapters set the framework for theoretical contributions within the broader context of experimental physics. The book is based upon the lectures of the CNRS School on Mass held in Orléans, France, in June 2008. All contributions have been anonymously refereed and, with the cooperation of the authors, revised by the editors to ensure overall consistency.

DENTISTS

[Pebble](#) Open wide! Dentists care for people's teeth. Give readers the inside scoop on what it's like to be a dentist. Readers will learn what dentists do, the tools they use, and how people get this exciting job.

STRUCTURAL CONCRETE

THEORY AND DESIGN

[John Wiley & Sons](#) Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318-11 code.

ADVANCING ASTROPHYSICS WITH THE SQUARE KILOMETRE ARRAY : [PROCEEDINGS FROM A MEETING HELD IN GIARDINI NAXOS, SICILY, ITALY, 9-13 JUNE 2014]

ASTRONOMICAL OBSERVATIONS MADE ...

FRESNEL ZONES IN WIRELESS LINKS, ZONE PLATE LENSES AND ANTENNAS

[Artech House Publishers](#) Whether you are an experienced electromagnetics specialist or a newcomer to the field, whether you need practical design guidelines or a clear and concise exposition of the fundamentals, you'll find this book invaluable. Written by an acknowledged expert, the volume includes a detailed description of the application of Fresnel zones to microwave wireless communication links as well as a comprehensive description of the state-of-the-art in newly created zone plate lens and antenna technologies. It also contains an overview of the basic electromagnetic equations for time harmonic fields, and a thorough treatment of the Fresnel-Kirchoff diffraction theory.