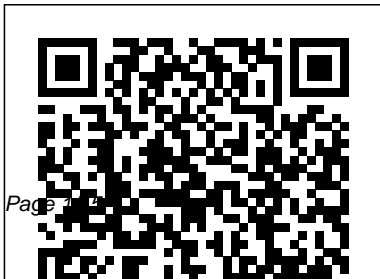

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Passive Microwave Components and Antennas

John Wiley & Sons

This volume offers the proceedings of the 2nd UNet conference, held in Casablanca May 30 - June 1, 2016. It presents new trends and findings in hot topics related to ubiquitous computing/networking, covered in three tracks and three special sessions: Main Track 1: Context-Awareness and Autonomy Paradigms Track Main Track 2: Mobile Edge Networking and Virtualization Track Main Track 3: Enablers, Challenges and Applications Special Session 1: Smart Cities and Urban Informatics for Sustainable Development Special Session 2: Unmanned Aerial Vehicles From Theory to Applications Special Session 3: From Data to Knowledge: Big Data applications and solutions

A Modern Guide to Food Economics

Springer

"...Ben has been the world-wide guru of this

technology, providing support to applications of all types. His genius lies in handling the extremely complex mathematics, while at the same time seeing the practical matters involved in applying the results. As this book clearly shows, Ben is able to relate to novices interested in using frequency selective surfaces and to explain technical details in an understandable way, liberally spiced with his special brand of humor... Ben Munk has written a book that represents the epitome of practical understanding of Frequency Selective Surfaces. He deserves all honors that might befall him for this achievement." -William F. Bahret. Mr. W. Bahret was with the United States Air Force but is now retired. From the early 50s he sponsored numerous projects concerning Radar Cross Section of airborne platforms in particular antennas and absorbers. Under his

leadership grew many of the concepts used extensively today, as for example the metallic radome. In fact, he is by many considered to be the father of stealth technology. "This book compiles under one cover most of Munk's research over the past three decades. It is woven with the physical insight that he has gained and further developed as his career has grown. Ben uses mathematics to whatever extent is needed, and only as needed. This material is written so that it should be useful to engineers with a background in electromagnetics. I strongly recommend this book to any engineer with any interest in phased arrays and/or frequency selective surfaces. The physical insight that may be gained from this book will enhance their ability to treat additional array problems of their own." -Leon Peters, Jr. Professor Leon Peters,

Jr., was a professor at the Ohio State University but is now retired. From the early sixties he worked on, among many other things, RCS problems involving antennas and absorbers. This book presents the complete derivation of the Periodic Method of Moments, which enables the reader to calculate quickly and efficiently the transmission and reflection properties of multi-layered Frequency Selective Surfaces comprised of either wire and/or slot elements of arbitrary shape and located in a stratified medium. However, it also gives the reader the tools to analyze multi-layered FSS's leading to specific designs of the very important Hybrid Radome, which is characterized by constant bandwidth with angle of incidence and polarization. Further, it investigates in great detail bandstop filters with large as well as narrow bandwidth (dichroic surfaces). It also

discusses for the first time, lossy elements used in producing Circuit Analog absorbers. Finally, the last chapter deals with power breakdown of FSS's when exposed to pulsed signals with high peak power. The approach followed by most other presentations simply consists of expanding the fields around the FSS, matching the boundary conditions and writing a computer program. While this enables the user to obtain calculated results, it gives very little physical insight and no help in how to design actual multi-layered FSS's. In contrast, the approach used in this title analyzes all curves of desired shapes. In particular, it discusses in great detail how to produce radomes made of FSS's located in a stratified medium (Hybrid Radomes), with constant bandwidth for all angles of incidence and polarizations. Numerous examples are given of great practical interest.

More specifically, Chapter 7 deals with the theory and design of bandpass radomes with constant bandwidth and flat tops. Examples are given for mono-, bi- and tri-planar designs. Chapter 8 deals with bandstop filters with broad as well as narrow bandwidth. Chapter 9 deals with multi-layered FSS of lossy elements, namely the so-called Circuit Analog Absorbers, designed to yield outstanding absorption with more than a decade of bandwidth. Features material previously labeled as classified by the United States Air Force.

Manual of Heart Failure BRILL
The majority of the contributions in this topically edited book stems from the priority program SPP 1113 "Photonische Kristalle" run by the Deutsche Forschungsgemeinschaft (DFG),

resulting in a survey of the current state of photonic crystal research in Germany. The first part of the book describes methods for the theoretical analysis of their optical properties as well as the results. The main part is dedicated to the fabrication, characterization and modeling of two- and three-dimensional photonic crystals, while the final section presents a wide spectrum of applications: gas sensors, micro-lasers, and photonic crystal fibers. Illustrated in full color, this book is not only of interest to advanced students and researchers in physics, electrical engineering, and material science, but also to company R&D departments involved in photonic crystal-

related technological developments.

Practical Guide to RF-MEMS Springer

This useful tool provides the reader with a current overview of where microstrip patch antenna technology is at, and useful information on how to design this form of radiator for their given application and scenario. Practical design cases are provided for each goal.

Springer Science & Business Media

Compact Models and Measurement Techniques for High-Speed Interconnects provides detailed analysis of issues related to high-speed interconnects from the perspective of modeling approaches and measurement techniques. Particular focus is laid on the unified approach (variational method combined with the transverse transmission line technique) to develop efficient compact models for planar interconnects. This book will give a qualitative summary of the various reported modeling

techniques and approaches and will help researchers and graduate students with deeper insights into interconnect models in particular and interconnect in general. Time domain and frequency domain measurement techniques and simulation methodology are also explained in this book.

Photonic Crystals JP Medical Ltd

Pozar's new edition of Microwave Engineering includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a

discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

Advances in Design, Fabrication, and Characterization Artech House

This book contains extended and revised versions of the best papers presented at the 17th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2009, held in Florianópolis, Brazil, in October 2009. The 8 papers included in the book together with two keynote talks were carefully reviewed and selected from 27 papers presented at the conference. The papers cover a wide variety of excellence in VLSI technology and advanced research addressing the current trend toward increasing chip integration and technology process advancements bringing about stimulating new challenges both at the physical and system-

design levels, as well as in the test of these systems. Bradshaw's Railway Manual, Shareholders' Guide, and Official- Directory ... Bentham Science Publishers

Edited by internationally recognized authorities in the field, this expanded edition of the bestselling Handbook first published in 1999 is aimed at the design and operation of modern accelerators including Linacs, Synchrotrons and Storage Rings. It is intended as a vade mecum for professional engineers and physicists engaged in these subjects. With a collection of 2200 equations, 345 illustrations and 185 tables, here one will find, in addition to the common formulae of previous compilations, hard to find, specialized formulae, recipes and material data pooled from the lifetime experience of many of the world's most able practitioners of the art and science of accelerators. The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types. Chapters on beam dynamics and electromagnetic and nuclear interactions deals with linear and nonlinear single particle and collective effects including spin motion, beam-environment, beam-beam and intrabeam interactions. The impedance concept and calculations are dealt with at length as are the instabilities associated with the various interactions mentioned. A chapter on operational considerations deals with orbit error assessment and correction. Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration. Hardware systems for particle sources, feedback systems, confinement and acceleration (both normal conducting and superconducting) receive detailed treatment in a subsystems chapter, beam

measurement techniques and apparatus being treated therein as well. The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices. A detailed index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found.

World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China John Wiley & Sons

This book has focussed on different aspects of smart sensors and sensing technology, i.e. intelligent measurement, information processing, adaptability, recalibration, data fusion, validation, high reliability and integration of novel and high performance

sensors in the areas of magnetic, ultrasonic, vision and image sensing, wireless sensors and network, microfluidic, tactile, gyro, flow, surface acoustic wave, humidity and ultra-wide band. While future interest in this field is ensured by the constant supply of emerging modalities, techniques and engineering solutions, as well as an increasing need from aging structures, many of the basic concepts and strategies have already matured and now offer opportunities to build upon. The book has primarily been focussed for postgraduate and research students working on different aspects of design and developments of smart sensors and sensing technology.

Free Surface Flows Edward Elgar Publishing
This second, thoroughly updated edition of The Routledge International Handbook of Children,

Adolescents, and Media analyzes a broad range of complementary areas of study, including children as media consumers, children as active participants in media making, and representations of children in the media. The roles that media play in the lives of children and adolescents, as well as their potential implications for their cognitive, emotional, social, and behavioral development, have attracted growing research attention in a variety of disciplines. This handbook presents a collection that spans a variety of disciplines including developmental psychology, media studies, public health, education, feminist studies, and the sociology of childhood. Chapters provide a unique intellectual mapping of current knowledge, exploring the relationship of children and media in local, national, and global contexts. Divided into five parts, each with an introduction explaining the themes and topics covered, the handbook features over 50 contributions from leading and upcoming academics from around the globe. The revised and new chapters consider vital questions by analyzing texts, audience, and institutions, including: media and its effects on children ' s mental health children and the internet of toys media and digital inequalities news and citizenship in the aftermath of COVID-19 The Handbook ' s interdisciplinary approach and comprehensive, current, and international scope make it an authoritative, state-of-the-art guide to the field of children ' s media studies. It will be indispensable for media scholars and professionals, policy makers, educators, and parents.

[EM Modeling of Antennas and RF Components for Wireless Communication Systems](#) Springer Science & Business Media

The recent shift in focus from defense and

government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically. The modern microwave and RF engineer is expected to know customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented in the Held March 27-April 2, 1999 in New York City Springer

The Wave Concept Iterative Procedure (WCIP) method has found an increasing number of users within electromagnetic theory and applications to planar circuits, antennas and diffraction problems. This book introduces in detail this new formulation of integral methods, based on the use of a wave concept with two bounded operators, and applications in a variety of domains in

electromagnetics. This approach presents a number of benefits over other integral methods, including overcoming the problem of singularity, and reduced computing time. Through the presentation of mathematical equations to characterize studied structures and explanation of the curves obtained, via validated examples, the authors provide a thorough background to electromagnetism as well as a professional reference to students and researchers.

Microstrip Patch Antennas: A Designer ' s Guide
CRC Press

This IBM® Redbooks® publication demonstrates and documents that the combination of IBM System x®, IBM GPFSTM, IBM GPFs-FPO, IBM Platform Symphony®, IBM Platform HPC, IBM Platform LSF®, IBM Platform Cluster Manager Standard Edition, and IBM Platform Cluster Manager

Advanced Edition deliver significant value to clients in need of cost-effective, highly scalable, and robust solutions. IBM depth of solutions can help the clients plan a foundation to face challenges in how to manage, maintain, enhance, and provision computing environments to, for example, analyze the growing volumes of data within their organizations. This IBM Redbooks publication addresses topics to educate, reiterate, confirm, and strengthen the widely held opinion of IBM Platform Computing as the systems software platform of choice within an IBM System x environment for deploying and managing environments that help clients solve challenging technical and business problems. This IBM Redbooks publication addresses topics to that help answer customer's complex challenge requirements to manage, maintain, and analyze the growing volumes of data within their organizations and provide expert-level documentation to transfer the how-to-skills to the worldwide support teams. This IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective computing solutions that help optimize business results, product development, and scientific discoveries.

Advances in Ubiquitous Networking 2 Artech House

In recent years, several major drivers have put the world off track to ending world hunger and malnutrition in all its forms by 2030. The challenges have grown with the COVID-19 pandemic and related containment measures. This report presents the first global assessment of food insecurity and malnutrition for 2020 and offers some indication of what hunger might look like by 2030 in a scenario further complicated by the enduring effects of the COVID-19 pandemic. It also includes new estimates of the cost and affordability of

healthy diets, which provide an important link between the food security and nutrition indicators and the analysis of their trends. Altogether, the report highlights the need for a deeper reflection on how to better address the global food security and nutrition situation. To understand how hunger and malnutrition have reached these critical levels, this report draws on the analyses of the past four editions, which have produced a vast, evidence-based body of knowledge of the major drivers behind the recent changes in food security and nutrition. These drivers, which are increasing in frequency and intensity, include conflicts, climate variability and extremes, and economic slowdowns and downturns – all exacerbated by the underlying causes of poverty and very high and persistent levels of inequality. In addition, millions of people around the world suffer from food insecurity and different forms of malnutrition because they cannot afford the cost of healthy diets. From a synthesized understanding of this knowledge, updates and additional analyses are generated to create a holistic view of the combined effects of these drivers, both on each other and on food systems, and how they negatively affect food security and nutrition around the world. In turn, the evidence informs an in-depth look at how to move from silo solutions to integrated food systems solutions. In this regard, the report proposes transformative pathways that specifically address the challenges posed by the major drivers, also highlighting the types of policy and investment portfolios required to

transform food systems for food security, improved nutrition, and affordable healthy diets for all. The report observes that, while the pandemic has caused major setbacks, there is much to be learned from the vulnerabilities and inequalities it has laid bare. If taken to heart, these new insights and wisdom can help get the world back on track towards the goal of ending hunger, food insecurity, and malnutrition in all its forms.

Volume 1: Medical Springer

This volume publishes new trends and findings in hot topics related to ubiquitous computing/networking. It is the outcome of UNet - an international scientific event that took place on September 08-10, 2015, in the fascinating city of Casablanca, Morocco.

UNet ' 15 is technically sponsored by IEEE

Morocco Section and IEEE COMSOC Morocco Chapter.

Springer Science & Business Media

Comprehensive guide to heart failure for clinicians. Includes chapter in cardiopulmonary exercise testing. Internationally recognised US author team.

VLSI-SoC: Technologies for Systems Integration
CRC Press

The book covers selected problems in free surface flows. The topics range from linear and nonlinear gravity and capillary waves, thin film dynamics, equilibrium shape, stability, and dynamics of capillary surfaces to thermal Marangoni effects in several geometries. The fluid dynamical problems are supplemented by a review Eulerian based computational methods.

Compact Models and Measurement Techniques for High-Speed Interconnects Springer Science & Business Media

Design better, more effective RF, microwave, and millimeter-wave filters -- in substantially less time -- with this practical new book. It shows you how to employ sophisticated, optimization-based approaches to filter design, and provides ready-made CAD filter design algorithms that help you easily develop a wide variety of filter configurations.

Management of Heart Failure BoD – Books on Demand

This new edition of Medical Management of Heart Failure will provide the full spectrum of medical options, ICU management and rehabilitation, while also prepare the reader for the second volume of Comprehensive Management of Heart Failure by introducing the surgical options in heart failure from transplant to the more noninvasive procedures in the interventional radiology department. The

contributing authors are all key opinion leaders in the medical management of heart failure. This volume is designed to integrate with its sister surgery title, but also alone be the definitive guide to the medical management of heart failure.

Ad Law John Wiley & Sons

We regularly find ourselves in food environments that promote the consumption of high fat and sugary foods rather than encouraging us to eat more fruit and vegetables. However, because of increased media attention, people are becoming more interested in alternative approaches to improving the many food-related decisions we make daily. Transforming Food Environments features evidence from several disciplines exploring initiatives that have improved food environments and discusses

the importance of achieving success in equitable and sustainable ways. The book presents information on diverse food environments followed by methods that help readers become aware of the design of interventions and food policies. It covers food environments in schools, workplaces, and community centres as well as fast food establishments and food marketing. The book presents methods to help encourage better food choices and purchase of healthier foods. It explores persuasion tactics used by health professionals such as changing availability and/or price, using nudging techniques, and food labelling. Led by Editor Charlotte Evans, Associate Professor of Nutritional Epidemiology and Public Health Nutrition at the University of Leeds; and written by an

international range of authors from countries including the US, Canada, Australia, New Zealand, Japan and the United Kingdom, this multidisciplinary book appeals to students, researchers, public health professionals and policy makers. It also raises awareness and provides a comprehensive treatment of the importance of our environments on food choice.