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Microwave Journal

Nano Dielectric Resonator Antennas for 5G Applications

Government Reports Announcements & Index

Electronic Components and Systems

Soft Computing Applications

Time Domain Methods in Electrodynamics

Soft Material-Enabled Electronics for Medicine, Healthcare, and Human-Machine Interfaces

Development and Implementation of RFID Technology

Small Antenna Handbook

Microwave Discharges

Advances in FDTD Computational Electrodynamics

Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2

Advanced Informatics for Computing Research

Physics of Intensity Dependent Beam Instabilities

Experimental Approaches of NMR Spectroscopy

Handbook of Accelerator Physics and Engineering

Magnetic Resonance Procedures

The Finite-Difference Time-Domain Method for Electromagnetics with MATLAB® Simulations

Advances in VLSI, Communication, and Signal Processing

Tools for Computational Finance

Novel Technologies for Microwave and Millimeter — Wave Applications

Advances in Communication Systems and Networks

RF MEMS Circuit Design for Wireless Communications

NASA Tech Briefs

Multiqubit experiments in 3D circuit quantum electrodynamics

Brain and Human Body Modeling

International Conference on Innovative Computing and Communications  
Electromagnetics and Network Theory and their Microwave Technology Applications  
Passive Microwave Components and Antennas  
Microwave Discharges  
Foundations for Microstrip Circuit Design  
Millimeter, Submillimeter, and Far-infrared Detectors and Instrumentation for Astronomy VII  
LHC Design Report  
High-Speed Electronics  
Electrical & Electronics Abstracts  
Microstrip and Printed Antenna Design  
Microwave Circuit Modeling Using Electromagnetic Field Simulation  
Recent Innovations in Computing  
Wireless Communications, Networking and Applications  
Gas (vapor) Liquid Systems

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## **HERRERA BUCKLEY**

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**Microwave Journal** Springer Science & Business Media

This open access book describes modern applications of computational human modeling with specific emphasis in the areas of neurology and neuroelectromagnetics, depression and cancer treatments, radio-frequency studies and wireless communications. Special consideration is also given to the

use of human modeling to the computational assessment of relevant regulatory and safety requirements. Readers working on applications that may expose human subjects to electromagnetic radiation will benefit from this book's coverage of the latest developments in computational modelling and human phantom development to assess a given technology's safety and efficacy in a timely manner. Describes construction and application of computational human models including anatomically detailed and subject specific models; Explains new

practices in computational human modeling for neuroelectromagnetics, electromagnetic safety, and exposure evaluations; Includes a survey of modern applications for which computational human models are critical; Describes cellular-level interactions between the human body and electromagnetic fields.

### **Nano Dielectric Resonator Antennas for 5G Applications** CRC Press

We are always surrounded by electromagnetic waves and fields of various spectra. This book explains basic electromagnetic theory with the help of

design formulations i.e. mathematical background on antennas along with experimentations, which has made this book unique. The main purpose of this book is to embed mathematical EM theory of dielectric resonator antennas with experimental validation so that understanding of concepts takes place. Initially, basic understanding of philosophy of dielectric resonators has been discussed, then it is supported with mathematical modeling and later same is implemented with its prototype model along with experimentations. The modes theory gives important analysis on currents distribution, impedance analysis and radiation pattern in DRA. Circular polarization can built signal robustness, case studies on circular polarization has been included. Equivalent RLC circuit concept has been introduced. Challenges of switching from microwave to terahertz has been briefly discussed. Nano DRA will revolutionize the wireless technology. Nano DRA ,Terahertz DRA and Quantum DRA have analyzed and studied.

Government Reports Announcements & Index Springer

This book comprises select peer-reviewed

papers from the International Conference on VLSI, Communication and Signal processing (VCAS) 2019, held at Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, India. The contents focus on latest research in different domains of electronics and communication engineering, in particular microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book also discusses the emerging applications of novel tools and techniques in image, video and multimedia signal processing. This book will be useful to students, researchers and professionals working in the electronics and communication domain.

*Electronic Components and Systems*  
Springer Science & Business Media

This book presents the proceedings of the 8th International Workshop on Soft Computing Applications, SOFA 2018, held on 13–15 September 2018 in Arad, Romania. The workshop was organized by Aurel Vlaicu University of Arad, in conjunction with the Institute of Computer Science, Iasi Branch of the Romanian Academy, IEEE Romanian Section,

Romanian Society of Control Engineering and Technical Informatics – Arad Section, General Association of Engineers in Romania – Arad Section and BTM Resources Arad. The papers included in these proceedings, published post-conference, cover the research including Knowledge-Based Technologies for Web Applications, Cloud Computing, Security Algorithms and Computer Networks, Business Process Management, Computational Intelligence in Education and Modelling and Applications in Textiles and many other areas related to the Soft Computing. The book is directed to professors, researchers, and graduate students in area of soft computing techniques and applications.

Soft Computing Applications IET

This book features selected papers presented at the 3rd International Conference on Recent Innovations in Computing (ICRIC 2020), held on 20–21 March 2020 at the Central University of Jammu, India, and organized by the university's Department of Computer Science & Information Technology. It includes the latest research in the areas of software engineering, cloud computing,

computer networks and Internet technologies, artificial intelligence, information security, database and distributed computing, and digital India. Time Domain Methods in Electrodynamics Springer Science & Business Media

In the past, a number of Satellite Conferences have been held in connection with the International Conference on Physics of Semiconductors, covering selected fields of interest. In 1986, when the main conference was held in Stockholm, Sweden, new phenomena had to be discussed: super lattices, hot electron phenomena and new device structures for high-speed applications. The aim was to select topics which would be of interest to physicists as well as to electronics engineers. Therefore a Satellite Conference on High-Speed Electronics, Basic Physical Phenomena and Device Principles, was arranged at Saltjobaden, a coastal resort near Stockholm. An organizing committee was established after the first suggestion made by Professor Grimmeiss from the University of Lund, Sweden, and some preliminary discussions on the Conference format. A Program Committee was established to be

responsible for the further selection of the invited talks, the regular papers and poster presentation. The aim was to have a broad spectrum of contributions to attract physicists as well as device oriented engineers and to stimulate discussions among the participants. These Proceedings contain all oral and poster presentations, with emphasis on the invited talks, which give a competent overview of the field. The fast publication by Springer-Verlag has permitted the presentation of an up-to-date survey of the principles of high-speed electronics. Incorporation in the Springer Series in Electronics and Photonics will enable the book to be distributed worldwide and to reach all interested scientists. Soft Material-Enabled Electronics for Medicine, Healthcare, and Human-Machine Interfaces World Scientific

Novel Technologies for Microwave and Millimeter-Wave Applications provides an overview of current research status in selected field, to facilitate a learning process from concepts to practices, from component design to system architecture, and from small scale to large scale. Each chapter focuses on a topic and is

organized to be self-sufficient. Contents in each chapter include concise description of relevant background information, major issues, current trend and future challenges. Useful references are also listed for further reading. Novel Technologies for Microwave and Millimeter-Wave Applications is suitable as a textbook for senior or graduate courses in microwave engineering. Development and Implementation of RFID Technology John Wiley & Sons

Now in an completely revised, updated, and enlarged Second Edition, Small Antennas in Portable Devices reviews recent significant theoretical and practical developments in the electrically small antenna area. Examining antenna designs that work as well as those that have limitations, this new edition provides practicing engineers and upper level and graduate students with new information on: work on improving bandwidth using spherical helix dipoles; work on electromagnetically coupled structures; exact derivation of the Q for electrically small antennas for both the TE and TM modes; and a new simplified Q formula. Small Antenna Handbook Nova Publishers

This is one of the best books on computational electromagnetics both for graduate students focusing on electromagnetics problems and for practicing engineering professionals in industry and government. It is designed as an advanced textbook and self-study guide to the FDTD method of solving EM problems and simulations. This latest edition has been expanded to include 5 entirely new chapters on advanced topics in the mainstream of FDTD practice. In addition to advanced techniques it also includes applications and examples, and some 'tricks and traps' of using MATLAB to achieve them. Compared to the previous version the second edition is more complete and is a good reference for someone who is performing FDTD research. This book is part of the ACES Series on Computational Electromagnetics and Engineering. Supplementary material can be found at the IET's ebook page [www.theiet.org](http://www.theiet.org). Supplementary materials for professors are available upon request via email to [books@theiet.org](mailto:books@theiet.org).

*Microwave Discharges* Springer Science & Business Media

This book describes the advanced

developments in methodology and applications of NMR spectroscopy to life science and materials science. Experts who are leaders in the development of new methods and applications of life and material sciences have contributed an exciting range of topics that cover recent advances in structural determination of biological and material molecules, dynamic aspects of biological and material molecules, and development of novel NMR techniques, including resolution and sensitivity enhancement. First, this book particularly emphasizes the experimental details for new researchers to use NMR spectroscopy and pick up the potentials of NMR spectroscopy. Second, the book is designed for those who are involved in either developing the technique or expanding the NMR application fields by applying them to specific samples. Third, the Nuclear Magnetic Resonance Society of Japan has organized this book not only for NMR members of Japan but also for readers worldwide who are interested in using NMR spectroscopy extensively.

*Advances in FDTD Computational Electrodynamics* Springer Nature

This book provides a comprehensive

treatment of intensity dependent particle beam instabilities in accelerating rings. Written for researchers, the material is also suitable for use as a textbook in an advanced graduate course for students studying accelerator physics. The presentation starts with a brief review of the basic concept of wake potentials and coupling impedances in the vacuum chamber followed by a discussion on static and dynamic solutions of their effects on the particle beams. Special emphasis is placed separately on proton and electron machines. Other special topics of interest covered include Landau damping, Balakin-Okunov-Smirnov damping, Sacherer's integral equations, Landau cavity, saw-tooth instability, Robinson stability criteria, beam loading, transition crossing, two-stream instabilities, and collective instability issues of isochronous rings. After the formulation of an instability, readers are provided a thorough description of one or more experimental observations together with a discussion of the cures for the instability. Although the book is theory oriented, the use of mathematics has been minimized. The presentation is intended to

be rigorous and self-contained with nearly all the formulas and equations derived."

**Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2**

John Wiley & Sons

Magnetic Resonance Procedures: Health Effects and Safety is the first authoritative text on MR procedures and its associated health and safety concerns written by noted radiologists, physicists, and scientists with expertise in the field. It contains both theoretical and practical information. This timely text discusses emergent issues rela

*Advanced Informatics for Computing Research* Springer

Electronic Components and Systems focuses on the principles and processes in the field of electronics and the integrated circuit. Covered in the book are basic aspects and physical fundamentals; different types of materials involved in the field; and passive and active electronic components such as capacitors, inductors, diodes, and transistors. Also covered in the book are topics such as the fabrication of semiconductors and integrated circuits;

analog circuitry; digital logic technology; and microprocessors. The monograph is recommended for beginning electrical engineers who would like to know the fundamental concepts, theories, and processes in the related fields.

**Physics of Intensity Dependent Beam Instabilities** Lulu.com

This volume contains 60 papers presented at ICTIS 2015: International Conference on Information and Communication Technology for Intelligent Systems. The conference was held during 28th and 29th November, 2015, Ahmedabad, India and organized communally by Venus International College of Technology, Association of Computer Machinery, Ahmedabad Chapter and Supported by Computer Society of India Division IV - Communication and Division V - Education and Research. This volume contains papers mainly focused on ICT and its application for Intelligent Computing, Cloud Storage, Data Mining, Image Processing and Software Analysis etc.

**Experimental Approaches of NMR Spectroscopy** Wexford College Press

Edited by internationally recognized authorities in the field, this expanded and

updated new edition of the bestselling Handbook, containing more than 100 new articles, is aimed at the design and operation of modern particle accelerators. It is intended as a vade mecum for professional engineers and physicists engaged in these subjects. With a collection of more than 2000 equations, 300 illustrations and 500 graphs and 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 deal with linear and nonlinear single particle and collective effects including spin motion, beam-environment, beam-beam, beam-electron, beam-ion and intrabeam interactions. The impedance concept and related calculations are dealt with at length as are the instabilities associated with the

various interactions mentioned. A chapter on operational considerations includes discussions on the assessment and correction of orbit and optics errors, real-time feedbacks, generation of short photon pulses, bunch compression, tuning of normal and superconducting linacs, energy recovery linacs, free electron lasers, cooling, space-charge compensation, brightness of light sources, collider luminosity optimization and collision schemes. 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 name and subject index is provided together with reliable references to the literature where the

most detailed information available on all subjects treated can be found. [Handbook of Accelerator Physics and Engineering](#) Springer Nature  
[Gas Vapor Liquid Systems](#)  
[Magnetic Resonance Procedures](#) Springer  
The disciplines of financial engineering and numerical computation differ greatly, however computational methods are used in a number of ways across the field of finance. It is the aim of this book to explain how such methods work in financial engineering; specifically the use of numerical methods as tools for computational finance. By concentrating on the field of option pricing, a core task of financial engineering and risk analysis, this book explores a wide range of computational tools in a coherent and focused manner and will be of use to the entire field of computational finance. Starting with an introductory chapter that presents the financial and stochastic background, the remainder of the book goes on to detail computational methods using both stochastic and deterministic approaches. Now in its fifth edition, [Tools for Computational Finance](#) has been significantly revised and contains: A new

chapter on incomplete markets which links to new appendices on Viscosity solutions and the Dupire equation; Several new parts throughout the book such as that on the calculation of sensitivities (Sect. 3.7) and the introduction of penalty methods and their application to a two-factor model (Sect. 6.7) Additional material in the field of analytical methods including Kim's integral representation and its computation Guidelines for comparing algorithms and judging their efficiency An extended chapter on finite elements that now includes a discussion of two-asset options Additional exercises, figures and references Written from the perspective of an applied mathematician, methods are introduced as tools within the book for immediate and straightforward application. A 'learning by calculating' approach is adopted throughout this book enabling readers to explore several areas of the financial world. Interdisciplinary in nature, this book will appeal to advanced undergraduate students in mathematics, engineering and other scientific disciplines as well as professionals in financial engineering.

[The Finite-Difference Time-Domain Method](#)

for Electromagnetics with MATLAB® Simulations World Scientific

Building on the success of the previous three editions, *Foundations for Microstrip Circuit Design* offers extensive new, updated and revised material based upon the latest research. Strongly design-oriented, this fourth edition provides the reader with a fundamental understanding of this fast expanding field making it a definitive source for professional engineers and researchers and an indispensable reference for senior students in electronic engineering. Topics new to this edition: microwave substrates, multilayer transmission line structures, modern EM tools and techniques, microstrip and planar transmission line design, transmission line theory, substrates for planar transmission lines, Vias, wirebonds, 3D integrated interposer structures, computer-aided design,

microstrip and power-dependent effects, circuit models, microwave network analysis, microstrip passive elements, and slotline design fundamentals.

*Advances in VLSI, Communication, and Signal Processing* Springer Nature

This book consists of contributions given in honor of Wolfgang J.R. Hoefer. Space and time discretizing time domain methods for electromagnetic full-wave simulation have emerged as key numerical methods in computational electromagnetics. Time domain methods are versatile and can be applied to the solution of a wide range of electromagnetic field problems. Computing the response of an electromagnetic structure to an impulsive excitation localized in space and time provides a comprehensive characterization of the electromagnetic properties of the structure in a wide frequency range. The most important methods are the Finite

Difference Time Domain (FDTD) and the Transmission Line Matrix (TLM) methods. The contributions represent the state of the art in dealing with time domain methods in modern engineering electrodynamics for electromagnetic modeling in general, the Transmission Line Matrix (TLM) method, the application of network concepts to electromagnetic field modeling, circuit and system applications and, finally, with broadband devices, systems and measurement techniques.

Tools for Computational Finance BoD – Books on Demand

This volume provides a discussion of the challenges and perspectives of electromagnetics and network theory and their microwave applications in all aspects. It collects the most interesting contribution of the symposium dedicated to Professor Peter Russer held in October 2009 in Munich.