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Hfss Time Transient Getting Started *2021-06-04*

CYNTHIA MCDANIEL

Issues in Electronic Circuits, Devices, and Materials: 2011 Edition Litres
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.
Modern Antenna Systems BoD – Books on Demand
Due to progress in the development of communication systems, it is now possible to develop low-cost wearable communication systems. A wearable antenna is meant to be a part of the clothing or close to the body and used for communication purposes, which include tracking and navigation, mobile computing and public safety. Examples include smartwatches (with integrated Bluetooth antennas), glasses (such as Google Glass with Wi-Fi and GPS antennas), GoPro action cameras (with Wi-Fi and Bluetooth antennas), etc. They are increasingly common in consumer electronics and for healthcare and medical applications. However, the development of compact, efficient wearable antennas is one of the major challenges in the development of wearable communication and medical systems. Technologies such as printed compact antennas and miniaturization techniques have been developed to create efficient, small wearable antennas which are the main objective of this book. Each chapter covers enough mathematical detail and explanations to enable electrical, electromagnetic and biomedical engineers and students and scientists from all areas to follow and understand the topics presented. New topics and design methods are presented for the first time in the area of wearable antennas, metamaterial antennas and fractal antennas. The book covers wearable antennas, RF measurements techniques and measured results in the vicinity of the human body, setups and design considerations. The wearable antennas and devices presented in this book were analyzed by using HFSS and ADS 3D full-wave electromagnetics software. Explores wearable medical systems and antennas Explains the design and development of wearable communication systems Explores wearable reconfigurable antennas for communication and medical applications Discusses new types of metamaterial antennas and artificial magnetic conductors (AMC) Reviews textile antennas Dr. Albert Sabban holds a PhD in Electrical Engineering from the University of Colorado at Boulder, USA (1991), and an MBA from the Faculty of Management, Haifa University, Israel (2005). He is currently a Senior Lecturer and researcher at the Department of Electrical and Electronic Engineering at Kinneret and Ort Braude Engineering Colleges.
IEICE Transactions on Electronics BoD – Books on Demand
The content of this volume has been added toeMagRes (formerly Encyclopedia of MagneticResonance) - the ahref="http://onlinelibrary.wiley.com/book/10.1002/9780470034590/homepage/rf_coils_virtual_issue.htm?cm=on-chem&cs=chem-analytic&cu=sitename-ln&cd=sitename-ln-MRIgroup-VI" target="_blank"ultimate online resource for NMR andMRI/a. To date there is no single reference aimed at teaching the art ofapplications guided coil design for use in MRI. This RF Coilsfor MRI handbook is intended to become thisreference. Heretofore, much of the know-how of RF coil design is bottled upin various industry and academic laboratories around the world.Some of this information on coil technologies and applicationstechniques has been disseminated through the literature, while moreof this knowledge has been withheld for competitive or proprietaryadvantage. Of the published works, the record of technologydevelopment is often incomplete and misleading, accuratereferencing and attribution assignment being tantamount toadmission of patent infringement in the commercial arena. Accordingly, the literature on RF coil design is fragmented andconfusing. There are no texts and few courses offered toteach this material. Mastery of the art and science of RF coildesign is perhaps best achieved through the learning that comeswith a long career in the field at multiple places ofemployment...until now. RF Coils for MRI combines the lifetime understandingand expertise of many of the senior designers in the field into asingle, practical training manual. It informs the engineer on partnumbers and sources of component materials, equipment, engineeringservices and consulting to enable anyone with electronics benchexperience to build, test and interface a coil. The handbookteaches the MR system user how to safely and successfully implementthe coil for its intended application. The comprehensive articlesalso include information required by the scientist or physician topredict respective experiment or clinical performance of a coil fora variety of common applications. It is expectedthat RF Coils for MRI becomes an important resource forengineers, technicians, scientists, and physicians wanting tosafely and successfully buy or build and use MR coils in the clinicor laboratory. Similarly, this guidebook provides teachingmaterial for students, fellows and residents wanting to betterunderstand the theory and operation of RF coils. Many of the articles have been written by the pioneers anddevelopers of coils, arrays and probes, so this is all first handinformation! The handbook serves as an expository guide forhands-on radiologists, radiographers, physicians, engineers,medical physicists, technologists, and for anyone with interests inbuilding or selecting and using RF coils to achieve best clinicalor experimental results. About EMR Handbooks / eMagResHandbooks The Encyclopedia of Magnetic Resonance (up to 2012) andeMagRes (from 2013 onward) publish a wide range of onlinearticles on all aspects of magnetic resonance in physics,chemistry, biology and medicine. The existence of this large numberof articles, written by experts in various fields, is enabling thepublication of a series of EMR Handbooks / eMagResHandbooks on specific areas of NMR and MRI. Thechapters of each of these handbooks will comprise a carefullychosen selection of articles from eMagRes. In consultationwith the eMagRes Editorial Board, the EMRHandbooks / eMagRes Handbooks are coherentlyplanned in advance by specially-selected Editors, and new articlesare written (together with updates of some already existingarticles) to give appropriate complete coverage. The handbooks areintended to be of value and interest to research students,postdoctoral fellows and other researchers learning about thescientific area in question and undertaking relevant experiments,whether in academia or industry. Have the content of this Handbook and the complete content ofeMagRes at your fingertips! Visit: ahref="http://www.wileyonlinelibrary.com/ref/eMagRes"www.wileyonlinelibrary.com/ref/eMagRes/a View other eMagRes publications ahref="http://onlinelibrary.wiley.com/book/10.1002/9780470034590/homepage/emagres_publications.htm" target="_blank"here/a
Issues in Nuclear and Plasma Science and Technology: 2011 Edition Gangemi Editore spa
This book disseminates current information pertaining to the modulatory effects of foods and other food substances on behavior and neurological pathways and, importantly, vice versa. This ranges from the neuroendocrine control of eating to the effects of life-threatening disease on eating behavior. The importance of this contribution to the scientific literature lies in the fact that food and eating are an essential component of cultural heritage but the effects of perturbations in the food/cognitive axis can be profound. The complex interrelationship between neuropsychological processing, diet, and behavioral outcome is explored within the context of the most contemporary psychobiological research in the area. This comprehensive psychobiology- and pathology-themed text examines the broad spectrum of diet, behavioral, and neuropsychological interactions from normative function to occurrences of severe and enduring psychopathological processes.
Brain and Human Body Modeling Notion Press
Emerging Technologies and Circuits contains a set of outstanding papers, keynote and tutorials presented during 3 days at the International Conference On Integrated Circuit Design and Technology (ICICDT) held in June 2008 in Minatec, Grenoble.
Wearable Systems and Antennas Technologies for 5G, IOT and Medical Systems CRC Press
This book is a translation from a Russian book. In 2007, the authors created a new generation of layered composite-based sensors, whose advantages are high technology and thermal stability. The use of gradient heat flux sensors in laboratory and industrial conditions confirmed their reliability, showed high information, and allowed a number of priority results to be obtained. All of this is summarized in this book.
Handbook of Behavior, Food and Nutrition ScholarlyEditions
Presenting the latest developments in telecommunication and millimeter technology, this reference explains how recent research should be used for creating adaptable designs and applications, and offers alternative telecommunication technology for achieving an adaptable millimeter wave reflector imaging system. A discussion of an adaptable reflector that can be integrated in a wave-imaging system to reduce noise is also included.
Microstrip Antennas Cambridge University Press
With the inclusion of the two new hot topics in signal integrity, power integrity and high speed serial links, this book will be the most up to date complete guide to understanding and designing for signal integrity.
Simulation-based Optimization Of Antenna Arrays CRC Press
Noise Coupling is the root-cause of the majority of Systems on Chip (SoC) product fails. The book discusses a breakthrough substrate coupling analysis flow and modelling toolset, addressing the needs of the design community. The flow provides capability to analyze noise components, propagating through the substrate, the parasitic interconnects and the package. Using this book, the reader can analyze and avoid complex noise coupling that degrades RF and mixed signal design performance, while reducing the need for conservative design practices. With chapters written by leading international experts in the field, novel methodologies are provided to identify noise coupling in silicon. It additionally features case studies that can be found in any modern CMOS SoC product for mobile communications, automotive applications and readout front ends.
Signal and Power Integrity--simplified Springer Science & Business Media
The book addresses surrogate-assisted design of antenna arrays, in particular, how surrogate models, both data-driven and physics-based, can be utilized to expedite procedures such as parametric optimization, design closure, statistical analysis, or fault detection. Algorithms and design frameworks are illustrated using a large variety of examples including real-world printed-circuit antenna and antenna array structures.This unique compendium contains introductory materials concerning numerical optimization, both conventional (gradient-based and derivative-free, including metaheuristics) and surrogate-based, as well as a considerable selection of customized procedures developed specifically to handle antenna array problems. Recommendations concerning practical aspects of surrogate-assisted multi-objective antenna optimization are also given. The methods presented allow for cost-efficient handling of antenna array design problems (involving CPU-intensive EM models) in the context of design optimization and statistical analysis, which will benefit both researchers, designers and graduate students.
Design for High Performance, Low Power, and Reliable 3D Integrated Circuits Springer Nature
This book discusses innovation in ultra-wideband (UWB) technologies and systems. Divided into four sections, the volume introduces UWB technologies and RF modules, examines applications of these systems in areas such as medicine and sports, and discusses the importance of an accurate design of microwave modules and antennas.

Integrated Wide-Bandwidth Current Sensing Springer
Issues in Electronic Circuits, Devices, and Materials: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Electronic Circuits, Devices, and Materials. The editors have built Issues in Electronic Circuits, Devices, and Materials: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Electronic Circuits, Devices, and Materials in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Electronic Circuits, Devices, and Materials: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.
RF Coils for MRI Springer Nature
Pulses with sub-nanoseconds / nanoseconds rise time are used in high power radar, sterilization, testing the effect on electronic systems, food irradiation, electromagnetic welding, forming, wastewater processing, defence, medical electronics, etc. There are various methods for obtaining the mentioned low rise time pulses. In this book, a Marx generator, peaking capacitor and peaking switch are used to obtain high amplitude low rise time pulse. A radiating antenna is then connected to the output of peaking stage. Such a system is known as the high-power electromagnetic (EM) impulse radiator. Two such EM radiators were mathematically analysed, simulated, designed, fabricated and the experiments have been conducted in this book.
Design and Analysis of High-Power Electromagnetic Impulse Radiator 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.
Towards an Adaptable Millimeter Wave Reflector John Wiley & Sons
Principles of Neurobiology presents the major concepts of neuroscience with an emphasis on how we know what we know. The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper-level undergraduate and graduate students discover the relevant primary literature. Written by a single author in
Time Domain Methods in Electrodynamics Springer Science & Business Media
Issues in Nuclear and Plasma Science and Technology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Nuclear and Plasma Science and Technology. The editors have built Issues in Nuclear and Plasma Science and Technology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Nuclear and Plasma Science and Technology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Nuclear and Plasma Science and Technology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.
Fourier Transform Springer Nature
This book aims to bring together Researchers, Scientists, Engineers, Scholars and Students in the areas of computer engineering and information technology, and provides a forum for the dissemination of original research results, new ideas, Research and development, practical experiments, which concentrate on both theory and practices, for the benefit of the society. The book also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Computer Science and Information Technology in the context of Distributed computing, Big data, High performance computing, Internet-of-Things, and digital pedagogy. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware mechanisms in high performance computing and IoT applications. This book aspires to convey researchers' experiences, to present excellent result analysis, future scopes, and challenges facing the field of computer science, information technology, telecommunication, and digital pedagogy. This book aims to attract researchers and practitioners who are working in Information Technology and Computer Science. This book is about basics and high level concepts regarding intelligent computing paradigm, communications, and digital learning process. The book serves as a useful guide for Undergraduates, Postgraduates and Research Scholar in the field of Computer Science, Information Technology, and Electronics Engineering. We believe that this volume not only presents novel and interesting ideas but also will stimulate interesting discussions from the participants and inspire new ideas.
Frequency Selective Surfaces John Wiley & Sons
The field of antenna engineering has been advancing at a remarkable pace to support modern communication systems. Recently, significant progress has been made in the development of new antennas and techniques targeted for applications in medical, defense, health care, communication, etc. The motivation of this project is to present cutting-edge research materials in the field of antennas for modern wireless communication.
Electromagnetics and Network Theory and their Microwave Technology Applications ScholarlyEditions
"...Ben has been the world-wide guru of this technology, providingsupport to applications of all types. His genius lies in handlingthe extremely complex mathematics, while at the same time seeingthe practical matters involved in applying the results. As thisbook clearly shows, Ben is able to relate to novices interested inusing frequency selective surfaces and to explain technical detailsin an understandable way, liberally spiced with his special brandof humor... Ben Munk has written a book that represents the epitomeof practical understanding of Frequency Selective Surfaces. Hedeserves all honors that might befall him for this achievement."-William F. Bahret. Mr. W. Bahret was with the United States Air Force but is nowretired. From the early 50s he sponsored numerous projectsconcerning Radar Cross Section of airborne platforms in particularantennas and absorbers. Under his leadership grew many of theconcepts used extensively today, as for example the metallicradome. In fact, he is by many considered to be the father ofstealth technology. "This book compiles under one cover most of Munk's research overthe past three decades. It is woven with the physical insight thathe has gained and further developed as his career has grown. Benuses mathematics to whatever extent is needed, and only as needed.This material is written so that it should be useful to engineerswith a background in electromagnetics. I strongly recommend thisbook to any engineer with any interest in phased arrays and/orfrequency selective surfaces. The physical insight that may begained from this book will enhance their ability to treatadditional array problems of their own." -Leon Peters, Jr. Professor Leon Peters, Jr., was a professor at the Ohio StateUniversity but is now retired. From the early sixties he worked on,among many other things, RCS problems involving antennas andabsorbers. This book presents the complete derivation of the Periodic Methodof Moments, which enables the reader to calculate quickly andefficiently the transmission and reflection properties ofmulti-layered Frequency Selective Surfaces comprised of either wireand/or slot elements of arbitrary shape and located in a stratifiedmedium. However, it also gives the reader the tools to analyzemulti-layered FSS's leading to specific designs of the veryimportant Hybrid Radome, which is characterized by constant bandwidth with angle of incidence and polarization. Further, itinvestigates in great detail bandstop filters with large as well asnarrow bandwidth (dichroic surfaces). It also discusses for thefirst time, lossy elements used in producing Circuit Analogabsorbers. Finally, the last chapter deals with power breakdown ofFSS's when exposed to pulsed signals with high peak power. The approach followed by most other presentations simply consistsof expanding the fields around the FSS, matching the boundaryconditions and writing a computer program. While this enables theuser to obtain calculated results, it gives very little physicalinsight and no help in how to design actual multi-layered FSS's. Incontrast, the approach used in this title analyzes all curves ofdesired shapes. In particular, it discusses in great detail how toproduce radomes made of FSS's located in a stratified medium(Hybrid Radomes), with constant band width for all angles ofincidence and polarizations. Numerous examples are given of greatpractical interest. More specifically, Chapter 7 deals with thetheory and design of bandpass radomes with constant bandwidth andflat tops. Examples are given for mono-, bi- and tri-planardesigns. Chapter 8 deals with bandstop filters with broad as wellas narrow bandwidth. Chapter 9 deals with multi-layered FSS oflossy elements, namely the so-called Circuit Analog Absorbers,designed to yield outstanding absorption with more than a decade ofbandwidth. Features material previously labeled as classified by the UnitedStates Air Force.
Noise Coupling in System-on-Chip Springer Science & Business Media
If you are involved in designing and developing small antennas, this complete cutting-edge guide covers everything you need to know. From fundamentals and basic theory to design optimization, evaluation, measurements and simulation techniques, all the essential information is included. You will also get many practical examples from a range of wireless systems, whilst a glossary is provided to bring you up to speed on the latest terminology. A wide variety of small antennas is covered, and design and practice steps are described for each type: electrically small, functionally small, physically constrained small and physically small. Whether you are a professional in industry, a researcher, or a graduate student, this is your essential guide to small antennas.