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Design and Simulation of a Birdcage Coil Using CST Studio Suite for Application at 7T-Bernat Palau Tomás 2013 [ANGLÈS] This work describes the study of coil for Magnetic Resonance Imaging (MRI) application. Concretely, the principal objective is the design of a birdcage coil (RF coil) to use in a 7 Tesla scanner. More strength field has a better SNR and increased chemical shift effects, improving spectral fat suppression and spectroscopy. Moreover, a better SNR increases the spatial resolution or reduces the imaging time. For this reason, it is interesting research with high fields. The birdcage coil achieves circular polarization and generates a high homogeneous radio frequency magnetic field under many conditions. In this project is designed a Birdcage coil for a 7T to obtain images from small animals (like a mouse). It opens the door to design and construct a Birdcage coil for a 7T to obtain human brain images. In this project thesis, for obtain the design, a study is carried out firstly using the computer program BirdcageBuilder. Secondly, the results obtained with this simulator are introduced to the CST Microwave Studio, creating a 3D model and generating a

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simulation. In this step, finally the parameters are readjusted to obtain our desired Larmor frequency (298,2MHz) for a correct operation in 7T. These simulations demonstrate the theoretical results from our design and it shows the designed antenna behaviour.

Applications of Metamaterials-Filippo Capolino 2017-12-19 This book uses the first volume's exploration of theory, basic properties, and modeling topics to develop readers' understanding of applications and devices that are based on artificial materials. It explores a wide range of applications in fields including electronics, telecommunications, sensing, medical instrumentation, and data storage. The text also includes a practical user's guide and explores key areas in which artificial materials have developed. It includes experts' perspectives on current and future applications of metamaterials, to present a well-rounded view on state-of-the-art technologies.

Proceedings of the 4th Brazilian Technology Symposium (BTSym'18)-Yuzo Iano 2019-05-28 This book presents the Proceedings of The 4th Brazilian Technology Symposium (BTSym'18). Part I of the book discusses current technological issues on Systems Engineering, Mathematics and Physical Sciences, such as the Transmission Line, Protein-modified mortars, Electromagnetic Properties, Clock Domains, Chebyshev Polynomials, Satellite Control Systems, Hough Transform, Watershed Transform, Blood Smear Images, Toxoplasma Gondi, Operation System Developments, MIMO Systems, Geothermal-Photovoltaic Energy Systems, Mineral Flotation Application, CMOS Techniques, Frameworks Developments, Physiological Parameters Applications, Brain Computer Interface, Artificial Neural Networks, Computational Vision, Security Applications, FPGA Applications, IoT, Residential Automation, Data Acquisition, Industry 4.0, Cyber-Physical Systems, Digital Image Processing, Patters Recognition, Machine Learning, Photocatalytic Process, Physical-chemical analysis, Smoothing Filters, Frequency Synthesizers, Voltage Controlled Ring Oscillator, Difference Amplifier, Photocatalysis and Photodegradation. Part II of the book discusses current technological issues on Human, Smart and Sustainable Future of Cities, such as the Digital Transformation, Data Science, *Downloaded from*

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Hydrothermal Dispatch, Project Knowledge Transfer, Immunization Programs, Efficiency and Predictive Methods, PMBOK Applications, Logistics Process, IoT, Data Acquisition, Industry 4.0, Cyber-Physical Systems, Fingerspelling Recognition, Cognitive Ergonomics, Ecosystem services, Environmental, Ecosystem services valuation, Solid Waste and University Extension. BTSym is the brainchild of Prof. Dr. Yuzo Iano, who is responsible for the Laboratory of Visual Communications (LCV) at the Department of Communications (DECOM) of the Faculty of Electrical and Computing Engineering (FEEC), State University of Campinas (UNICAMP), Brazil.

Ultra Wideband Antennas-Giselle M. Galvan-Tejada 2017-12-19  
Ultra Wideband Antennas: Design, Methodologies, and Performance presents the current state of the art of ultra wideband (UWB) antennas, from theory specific for these radiators to guidelines for the design of omnidirectional and directional UWB antennas. Offering a comprehensive overview of the latest UWB antenna research and development, this book: Discusses the developed theory for UWB antennas in frequency and time domains Delivers a brief exposition of numerical methods for electromagnetics oriented to antennas Describes solid-planar equivalence, which allows flat structures to be implemented instead of volumetric antennas Examines the impedance matching, phase linearity, and radiation patterns as design objectives for omnidirectional and directional antennas Addresses the time domain signal analysis for UWB antennas, from which the distortion phenomenon can be modeled Includes illustrative examples, design equations, CST MICROWAVE STUDIO® simulations, and MATLAB® plot generations Compares the performance of different UWB antennas, supplying useful insight into particular tendencies and unresolved problems Ultra Wideband Antennas: Design, Methodologies, and Performance provides a valuable reference for the scientific community, as UWB antennas have a variety of applications in body area networks, radar, imaging, spectrum monitoring, electronic warfare, wireless sensor networks, and more.

Design and Applications of Active Integrated Antennas-Mohammad S. Sharawi 2018-05-31 This comprehensive new resource guides professionals in the latest methods used when designing active

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integrated antennas (AIA) for wireless communication devices for various standards. This book provides complete design procedures for the various elements of such active integrated antennas such as the matching network, the amplifier/active element as well as the antenna. This book offers insight into how active integration and co-design between the active components (amplifier, oscillator, mixer, diodes) and the antenna can provide better power transfer, higher gains, increased efficiencies, switched beam patterns and smaller design footprints. It introduces the co-design approach of active integrated antennas and its superior performance over conventional methods. Complete design examples are given of active integrated antenna systems for narrow and wideband applications as well as for multiple-input-multiple-output (MIMO) systems. Readers find the latest design methods for narrow and broadband RF matching networks. This book provides a complete listing of performance metrics for active integrated antennas. The book serves as a complete reference and design guide in the area of AIA.

Electromagnetic Compatibility-David A. Weston 2016-11-03  
Shelving Guide: Electrical Engineering Revised, updated, and expanded, Electromagnetic Compatibility: Methods, Analysis, Circuits, and Measurement, Third Edition provides comprehensive practical coverage of the design, problem solving, and testing of electromagnetic compatibility (EMC) in electrical and electronic equipment and systems. This new edition provides novel information on theory, applications, evaluations, electromagnetic computational programs, and prediction techniques available. With sixty-nine schematics providing examples for circuit level electromagnetic interference (EMI) hardening and cost effective EMI problem solving, this book also includes 1130 illustrations and tables. Including extensive data on components and their correct implementation, the myths, misapplication, misconceptions, and fallacies that are common when discussing EMC/EMI will also be addressed and corrected.

Kotlin / Android Studio 3.0 Development Essentials - Android 8 Edition- Fully updated for Android Studio 3.0 and Android 8, the goal of this book is to teach the skills necessary to develop Android based applications using the Android Studio Integrated Development Environment (IDE), the Android 8 Software

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Development Kit (SDK) and the Kotlin programming language. Beginning with the basics, this book provides an outline of the steps necessary to set up an Android development and testing environment followed by an introduction to programming in Kotlin including data types, flow control, functions, lambdas and object-oriented programming. An overview of Android Studio is included covering areas such as tool windows, the code editor and the Layout Editor tool. An introduction to the architecture of Android is followed by an in-depth look at the design of Android applications and user interfaces using the Android Studio environment. More advanced topics such as database management, content providers and intents are also covered, as are touch screen handling, gesture recognition, camera access and the playback and recording of both video and audio. This edition of the book also covers printing, transitions and cloud-based file storage. The concepts of material design are also covered in detail, including the use of floating action buttons, Snackbars, tabbed interfaces, card views, navigation drawers and collapsing toolbars. In addition to covering general Android development techniques, the book also includes Google Play specific topics such as implementing maps using the Google Maps Android API, and submitting apps to the Google Play Developer Console. Other key features of Android Studio 3 and Android 8 are also covered in detail including the Layout Editor, the ConstraintLayout and ConstraintSet classes, constraint chains and barriers, direct reply notifications and multi-window support. Chapters also cover advanced features of Android Studio such as App Links, Instant Apps, the Android Studio Profiler and Gradle build configuration. Assuming you already have some programming experience, are ready to download Android Studio and the Android SDK, have access to a Windows, Mac or Linux system and ideas for some apps to develop, you are ready to get started.

EDN- 2009

Ultra Wideband Signals and Systems in Communication Engineering-M. Ghavami 2007-02-06 The thoroughly revised and updated second edition of Ultra Wideband Signals and Systems in Communication Engineering features new standards, developments and applications. It addresses not only recent developments in UWB communication systems, but also related IEEE standards such as

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IEEE 802.15 wireless personal area network (WPAN). Examples and problems are included in each chapter to aid understanding. Enhanced with new chapters and several sections including Standardization, advanced topics in UWB Communications and more applications, this book is essential reading for senior undergraduates and postgraduate students interested in studying UWB. The emphasis on UWB development for commercial consumer communications products means that any communication engineer or manager cannot afford to be without it! New material included in the second edition: Two new chapters covering new regulatory issues for UWB systems and new systems such as ad-hoc and sensor networks, MAC protocols and space-time coding for UWB systems IEEE proposals for channel models and their specifications Interference and coexistence of UWB with other systems UWB antennas and arrays, and new types of antennas for UWB systems such as printed bow-tie antennas Coverage of new companies working on UWB such as Artimi and UBISense UWB potential for use in medicine, including cardiology, respiratory medicine, obstetrics and gynaecology, emergency room and acute care, assistance for disabled people, and throat and vocals Companion website features a solutions manual, Matlab programs and electronic versions of all figures.

Scientific Computing in Electrical Engineering SCEE 2008-Luis R.J. Costa 2010-06-14 This book is a collection of 65 selected papers presented at the 7th International Conference on Scientific Computing in Electrical Engineering (SCEE), held in Espoo, Finland, in 2008. The aim of the SCEE 2008 conference was to bring together scientists from academia and industry, e.g. mathematicians, electrical engineers, computer scientists, and physicists, with the goal of intensive discussions on industrially relevant mathematical problems, with an emphasis on modeling and numerical simulation of electronic circuits and devices, electromagnetic fields, and coupled problems. This extensive reference work is divided into five parts: 1. Computational electromagnetics, 2. Circuit simulation, 3. Coupled problems, 4. Mathematical and computational methods, and 5. Model-order reduction. Each part starts with a general introduction followed by the actual papers.

Microwave Journal- 2009

PCB Design for Real-World EMI Control-Bruce R. Archambeault

2013-06-29 Proper design of printed circuit boards can make the difference between a product passing emissions requirements during the first cycle or not. Traditional EMC design practices have been simply rule-based, that is, a list of rules-of-thumb are presented to the board designers to implement. When a particular rule-of-thumb is difficult to implement, it is often ignored. After the product is built, it will often fail emission requirements and various time consuming and costly add-ons are then required. Proper EMC design does not require advanced degrees from universities, nor does it require strenuous mathematics. It does require a basic understanding of the underlying principles of the potential causes of EMC emissions. With this basic understanding, circuit board designers can make trade-off decisions during the design phase to ensure optimum EMC design. Consideration of these potential sources will allow the design to pass the emissions requirements the first time in the test laboratory. A number of other books have been published on EMC. Most are general books on EMC and do not focus on printed circuit board design. This book is intended to help EMC engineers and design engineers understand the potential sources of emissions and how to reduce, control, or eliminate these sources. This book is intended to be a 'hands-on' book, that is, designers should be able to apply the concepts in this book directly to their designs in the real-world.

The Finite-Difference Time-Domain Method for Electromagnetics with MATLAB® Simulations-Atef Z. Elsherbeni 2015 This book introduces the powerful Finite-Difference Time-Domain method to students and interested researchers and readers. An effective introduction is accomplished using a step-by-step process that builds competence and confidence in developing complete working codes for the design and analysis of various antennas and microwave devices. This book will serve graduate students, researchers, and those in industry and government who are using other electromagnetics tools and methods for the sake of performing independent numerical confirmation. No previous experience with finite-difference methods is assumed of readers.

Key features Presents the fundamental techniques of the FDTD

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method at a graduate level, taking readers from conceptual understanding to actual program development. Full derivations are provided for final equations. Includes 3D illustrations to aid in visualization of field components and fully functional MATLAB® code examples. Completely revised and updated for this second edition, including expansion into advanced techniques such as total field/scattered field formulation, dispersive material modeling, analysis of periodic structures, non-uniform grid, and graphics processing unit acceleration of finite-difference time-domain method.

**FDTD Modeling of Metamaterials: Theory and Applications**-Yang Hao 2008-10-01 Master powerful new modeling tools that let you quantify and represent metamaterial properties with never-before accuracy. This first-of-its-kind book brings you up to speed on breakthrough finite-difference time-domain techniques for modeling metamaterial characteristics and behaviors in electromagnetic systems. This practical resource comes complete with sample FDTD scripts to help you pave the way to new metamaterial applications and advances in antenna, microwave, and optics engineering. You get in-depth coverage of state-of-the-art FDTD modeling techniques and applications for electromagnetic bandgap (EBG) structures, left-handed metamaterials (LHMs), wire medium, metamaterials for optics, and other practical metamaterials. You find steps for computing dispersion diagrams, dealing with material dispersion properties, and verifying the left-handedness. Moreover, this comprehensive volume offers guidance for handling the unique properties possessed by metamaterials, including how to define material parameters, characterize the interface of metamaterial slabs, and quantify their spatial as well as frequency dispersion characteristics. The book also presents conformal and dispersive FDTD modeling of electromagnetic cloaks, perfect lens, and plasmonic waveguides, as well as other novel antenna, microwave, and optical applications. Over 190 illustrations support key topics throughout the book.

**Analytical and Computational Methods in Electromagnetics**-Ramesh Garg 2008 Achieve optimal microwave system performance by mastering the principles and methods underlying today's powerful computational tools and commercial software in electromagnetics.

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This authoritative resource offers you clear and complete explanation of this essential electromagnetics knowledge, providing you with the analytical background you need to understand such key approaches as MoM (method of moments), FDTD (Finite Difference Time Domain) and FEM (Finite Element Method), and Green's functions. This comprehensive book includes all math necessary to master the material. Moreover, it features numerous solved problems that help ensure your understanding of key concepts throughout the book.

The Method of Moments in Electromagnetics, Second Edition- Walton C. Gibson 2014-07-10 Now Covers Dielectric Materials in Practical Electromagnetic Devices The Method of Moments in Electromagnetics, Second Edition explains the solution of electromagnetic integral equations via the method of moments (MOM). While the first edition exclusively focused on integral equations for conducting problems, this edition extends the integral equation framework to treat objects having conducting as well as dielectric parts. New to the Second Edition Expanded treatment of coupled surface integral equations for conducting and composite conducting/dielectric objects, including objects having multiple dielectric regions with interfaces and junctions Updated topics to reflect current technology More material on the calculation of near fields Reformatted equations and improved figures Providing a bridge between theory and software implementation, the book incorporates sufficient background material and offers nuts-and-bolts implementation details. It first derives a generalized set of surface integral equations that can be used to treat problems with conducting and dielectric regions. Subsequent chapters solve these integral equations for progressively more difficult problems involving thin wires, bodies of revolution, and two- and three-dimensional bodies. After reading this book, students and researchers will be well equipped to understand more advanced MOM topics.

Проектирование СВЧ устройств в CST STUDIO SUITE- 2015 Electromagnetic Performance Analysis of Graded Dielectric Inhomogeneous Radomes-P. Mahima 2018-03-14 This book reports on a new radome wall configuration based on an inhomogeneous planar layer, which overcomes current fabrication constraints in

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radome design and yields improved electromagnetic (EM) characteristics. The book also includes a detailed description of radomes and antenna-radome interaction studies for different radome wall configurations. The radome wall was designed using the equivalent transmission line method (EQTLM), since it requires less computational speed and provides accurate results. In order to substantiate the accuracy of the results obtained using EQTLM, the simulated results based on full wave methods like CST Microwave Studio Suite are also included. The EM performance analysis of the antenna-radome system for two radome shapes, tangent ogive (for airborne applications) and hemispherical (for ground-based applications), was performed using Geometric Optics Method in conjunction with the Aperture Integration Method. To show the efficacy of the new design, a comparison of performance characteristics between the novel radome and conventional wall configurations is also included. Lastly, it presents antenna-radome interaction studies for various aperture distributions. The book offers a unique resource for all researchers working in the area of microwave radomes.

Getting Started with LLVM Core Libraries-Bruno Cardoso Lopes  
2014-08-26 This book is intended for enthusiasts, computer science students, and compiler engineers interested in learning about the LLVM framework. You need a background in C++ and, although not mandatory, should know at least some compiler theory. Whether you are a newcomer or a compiler expert, this book provides a practical introduction to LLVM and avoids complex scenarios. If you are interested enough and excited about this technology, then this book is definitely for you.

Field Computation by Moment Methods-Roger F. Harrington  
1996-01 This classic 1968 edition of Field Computation by Moment Methods is the first book to explore the computation of electromagnetic fields by the method of moments--the most popular method for the numerical solution of electromagnetic field problems. It presents a unified approach to moment methods by employing the concepts of linear spaces and functional analysis. Written especially for those who have a minimal amount of experience in electromagnetic theory, theoretical and mathematical are illustrated by examples that prepare all readers with the skills

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they need to apply the method of moments to new, engineering-related problems.

Recent Development in Wireless Sensor and Ad-hoc Networks- Srikanta Patnaik 2014-12-01 Wireless Sensor Network (WSN) consists of numerous physically distributed autonomous devices used for sensing and monitoring the physical and/or environmental conditions. A WSN uses a gateway that provides wireless connectivity to the wired world as well as distributed networks. There are many open problems related to Ad-Hoc networks and its applications. Looking at the expansion of the cellular infrastructure, Ad-Hoc network may be acting as the basis of the 4th generation wireless technology with the new paradigm of 'anytime, anywhere communications'. To realize this, the real challenge would be the security, authorization and management issues of the large scale WSNs. This book is an edited volume in the broad area of WSNs. The book covers various chapters like Multi-Channel Wireless Sensor Networks, its Coverage, Connectivity as well as Deployment. It covers comparison of various communication protocols and algorithms such as MANNET, ODMRP and ADMR Protocols for Ad hoc Multicasting, Location Based Coordinated Routing Protocol and other Token based group local mutual exclusion Algorithms. The book also covers a chapter on Extended Ad hoc On-Demand Distance Vector (EAODV) routing protocol based on Distributed Minimum Transmission Multicast Routing (DMTMR). One chapter is dedicated to OCDMA and its future application and another chapter covers development of Home Automation System using SWN.

Advanced FDTD Methods-Wenhua Yu 2011 The finite-difference time-domain (FDTD) method has revolutionized antenna design and electromagnetics engineering. HereOCOs a cutting-edge book that focuses on the performance optimization and engineering applications of FDTD simulation systems. Covering the latest developments in this area, this unique resource offer you expert advice on the FDTD method, hardware platforms, and network systems. Moreover the book offers guidance in distinguishing between the many different electromagnetics software packages on the market today. You also find a complete chapter dedicated to large multi-scale problem solving. This practical reference is supported with 250 illustrations, 128 equations, and 11 appendixes

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filled with helpful data processing techniques related to the FDTD method.

Civil Engineering Applications of Ground Penetrating Radar-Andrea Benedetto 2015-04-07 This book, based on Transport and Urban Development COST Action TU1208, presents the most advanced applications of ground penetrating radar (GPR) in a civil engineering context, with documentation of instrumentation, methods and results. It explains clearly how GPR can be employed for the surveying of critical transport infrastructure, such as roads, pavements, bridges and tunnels and for the sensing and mapping of underground utilities and voids. Detailed attention is also devoted to use of GPR in the inspection of geological structures and of construction materials and structures, including reinforced concrete, steel reinforcing bars and pre/post-tensioned stressing ducts. Advanced methods for solution of electromagnetic scattering problems and new data processing techniques are also presented. Readers will come to appreciate that GPR is a safe, advanced, non destructive and noninvasive imaging technique that can be effectively used for the inspection of composite structures and the performance of diagnostics relevant to the entire life cycle of civil engineering works.

Printed Circuits Handbook, Seventh Edition-Clyde F. Coombs 2016-02-15 The world's leading guide to printed circuits—completely updated to include the latest tools, technology, and techniques The de facto industry-standard for over 30 years, this practical guide equips you with definitive coverage of every facet of printed circuit assemblies—from design methods to fabrication processes. Now thoroughly revised and updated, this book offers cutting-edge coverage of printed circuit engineering, fabrication, construction, soldering, testing, and repair. Printed Circuits Handbook, Seventh Edition features all new, critical guidance on how to create, manage, and measure performance throughout the global supply chain. Written by a team of international experts from both industry and academia, this comprehensive volume offers new information on geographical specialization as well as the latest phase of the EUs Directive on the Restriction of Hazardous Substances (ROHS II). Fully overhauled to cover the latest scientific and technical developments

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coverage of printed circuit supply chain technology and geographical specialization Complete explanations of new EU safety directives for halogen-free base materials

Antenna Arrays-Randy L. Haupt 2010-09-09 A comprehensive tutorial on the design and practical applications of antenna arrays An antenna array is an assembly of antenna elements that maximizes a received or transmitted signal in a desired direction. This practical book covers a wide range of antenna array topics that are becoming increasingly important in wireless applications, with emphasis on array design, applications, and computer modeling. Each chapter in Antenna Arrays builds upon the previous chapter, progressively addressing more difficult material. Beginning with basic electromagnetics/antennas/antenna systems information, the book then deals with the analysis and synthesis of arrays of point sources and their associated array factors. It presents a sampling of different antenna elements that replace these point sources, then presents element configurations that do not have to lie along a line or in a plane. The complex and difficult-to-predict interactions of elements and electromagnetic waves are introduced, along with computer modeling and experiments that are necessary for predicting the performance of arrays where mutual coupling is important. Then, various approaches to getting signals to and from the array elements to a computer where the signal detection takes place are explored, as are the numerical techniques behind smart antennas. The book emphasizes the computational methods used in the design and analysis of array antennas. Also featured are signal processing and numerical modeling algorithms, as well as pictures of antenna arrays and components provided by industry and government sources, with explanations of how they operate. Fully course-tested, Antenna Arrays serves as a complete text in phased array design and theory for advanced undergraduate- and graduate-level courses in electronics and communications, as well as a reference for practicing engineers and scientists in wireless communications, radar, and remote sensing.

IEEE Spectrum- 2009

2019 Antennas Design and Measurement International Conference (ADMInC)-IEEE Staff 2019-10-16 The Antennas Design and Measurement International Conference 2019 is organised to

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provide a platform for sharing results, knowledge dissemination, discussion, and networking researchers in the area of antenna technology, electromagnetics, antenna measurements and wave propagation

Characteristic Modes-Yikai Chen 2015-06-15 This book examines both theoretical developments of characteristic modes (CMs) and practical developments of CM-based methodologies for a variety of critical antenna designs. The book is divided into six chapters. Chapter 1 provides an introduction and discusses the recent advances of the CM theory and its applications in antenna engineering. Chapter 2 describes the formulation of the characteristic mode theory for perfectly electrically conducting (PEC) bodies and discusses its numerical implementations. Chapter 3 presents the CM theory for PEC structures embedded in multilayered medium and its applications. Chapter 4 covers recent advances in CM theory for dielectric bodies and also their applications. Chapter 5 discusses the CM theory for N-port networks and its applications to the design of antenna arrays. Finally, Chapter 6 discusses the design of platform-integrated antenna systems using characteristic modes.

2017 12th International Conference on Computer Engineering and Systems (ICCES)-IEEE Staff 2017-12-19 Computer Engineering and Systems

Integral Equation Methods for Electromagnetics-John Volakis 2012 This text/reference is a detailed look at the development and use of integral equation methods for electromagnetic analysis, specifically for antennas and radar scattering. Developers and practitioners will appreciate the broad-based approach to understanding and utilizing integral equation methods and the unique coverage of historical developments that led to the current state-of-the-art. In contrast to existing books, Integral Equation Methods for Electromagnetics lays the groundwork in the initial chapters so students and basic users can solve simple problems and work their way up to the most advanced and current solutions. This is the first book to discuss the solution of two-dimensional integral equations in many forms of their application and utility. As 2D problems are simpler to discuss, the student and basic reader can gain the necessary expertise before diving into 3D applications. This is also the first basic text to

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cover fast integral methods for metallic, impedance, and material geometries. It will provide the student or advanced reader with a fairly complete and up-to-date coverage of integral methods for composite scatterers.

Signal Integrity Characterization Techniques-Mike Resso 2009  
Cogently addressing the future of signal integrity and the effect it will have on the data-transmission industry as a whole, this all-inclusive guide addresses a wide array of technologies, from traditional, digital data transmission to microwave measurements, and accessibly examines the gap between the two. Focusing on real-world applications and providing a wide array of case studies that show how each technology can be used?from backplane design challenges to advanced error correction techniques?this guide addresses many of today's high-speed technologies while also providing excellent insight into their future direction. With numerous valuable lessons pertaining to the signal integrity industry, this resource is the ultimate must-read guide for any specialist in the design engineering field.

Computational Electromagnetics for RF and Microwave Engineering-David B. Davidson 2005-02-24  
Introduces CEM methods, applying the codes that implement them to real-world engineering problems.

Customizing and Extending IBM Content Navigator-Wei-Dong Zhu 2015-04-13  
IBM® Content Navigator provides a unified user interface for your Enterprise Content Management (ECM) solutions. It also provides a robust development platform so you can build customized user interface and applications to deliver value and an intelligent, business-centric experience. This IBM Redbooks® publication guides you through the Content Navigator platform, its architecture, and the available programming interfaces. It describes how you can configure and customize the user interface with the administration tools provided, and how you can customize and extend Content Navigator using available development options with sample code. Specifically, the book shows how to set up a development environment, and develop plug-ins that add an action, service, and feature to the user interface. Customization topics include implementing request and response filters, external data services (EDS), creating custom step processors, and using Content

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Navigator widgets in other applications. This book also covers mobile development, viewer customization, component deployment, and debugging and troubleshooting. This book is intended for IT architects, application designers and developers working with IBM Content Navigator and IBM ECM products. It offers a high-level description of how to extend and customize IBM Content Navigator and also more technical details of how to do implementations with sample code.

Microstrip Filters for RF / Microwave Applications-Jia-Sheng Hong 2011-01-06 The first edition of "Microstrip Filters for RF/Microwave Applications" was published in 2001. Over the years the book has been well received and is used extensively in both academia and industry by microwave researchers and engineers. From its inception as a manuscript the book is almost 8 years old. While the fundamentals of filter circuits have not changed, further innovations in filter realizations and other applications have occurred with changes in the technology and use of new fabrication processes, such as the recent advances in RF MEMS and ferroelectric films for tunable filters; the use of liquid crystal polymer (LCP) substrates for multilayer circuits, as well as the new filters for dual-band, multi-band and ultra wideband (UWB) applications. Although the microstrip filter remains as the main transmission line medium for these new developments, there has been a new trend of using combined planar transmission line structures such as co-planar waveguide (CPW) and slotted ground structures for novel physical implementations beyond the single layer in order to achieve filter miniaturization and better performance. Also, over the years, practitioners have suggested topics that should be added for completeness, or deleted in some cases, as they were not very useful in practice. In view of the above, the authors are proposing a revised version of the "Microstrip Filters for RF/Microwave Applications" text and a slightly changed book title of "Planar Filters for RF/Microwave Applications" to reflect the aforementioned trends in the revised book.

EMI/EMC Computational Modeling Handbook-Bruce R.

Archambeault 2013-04-17 The application of computational electromagnetics to practical EMI/EMC engineering is an emerging technology. Because of the increased complexity in EMI/EMC issues

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resulting from advancements in electronics and telecommunications, it is no longer possible to rely exclusively on traditional techniques and tools to solve the growing list of electronic engineering design problems. EMI/EMC Computational Modeling Handbook introduces modeling and simulation of electromagnetics to real-world EMI/EMC engineering. It combines the essentials of electromagnetics, computational techniques, and actual EMI/EMC applications. Included are such popular full-wave computational modeling techniques as the Method of Moments, Finite-Difference Time Domain Technique, Finite Element Method, and several others. The authors have included a myriad of applications for computers, telecommunications, consumer electronics, medical electronics, and military uses. EMI/EMC Computational Modeling Handbook is an invaluable reference work for practicing EMI/EMC engineers, electronic design engineers, and any engineer involved in computational electromagnetics.

AIMMS 3. 10 User's Guide-Marcel Roelofs 2010-05-19 The AIMMS 3.10 User's Guide provides a global overview of how to use the AIMMS system. It is aimed at application builders, and explores AIMMS' capabilities in helping you create a model-based application in an easy and maintainable manner. The guide describes the various graphical tools that the AIMMS system offers for this task.

Electromagnetic Metamaterials-Christophe Caloz 2005-11-22 Electromagnetic metamaterials-from fundamental physics to advanced engineering applications This book presents an original generalized transmission line approach associated with non-resonant structures that exhibit larger bandwidths, lower loss, and higher design flexibility. It is based on the novel concept of composite right/left-handed (CRLH) transmission line metamaterials (MMs), which has led to the development of novel guided-wave, radiated-wave, and refracted-wave devices and structures. The authors introduced this powerful new concept and are therefore able to offer readers deep insight into the fundamental physics needed to fully grasp the technology. Moreover, they provide a host of practical engineering applications. The book begins with an introductory chapter that places resonant type and transmission line metamaterials in historical perspective. The next six chapters give readers a solid foundation in the fundamentals and practical

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applications: Fundamentals of LH MMs describes the fundamental physics and exotic properties of left-handed metamaterials TL Theory of MMs establishes the foundations of CRLH structures in three progressive steps: ideal transmission line, LC network, and real distributed structure Two-Dimensional MMs develops both a transmission matrix method and a transmission line method to address the problem of finite-size 2D metamaterials excited by arbitrary sources Guided-Wave Applications and Radiated-Wave Applications present a number of groundbreaking applications developed by the authors The Future of MMs sets forth an expert view on future challenges and prospects This engineering approach to metamaterials paves the way for a new generation of microwave and photonic devices and structures. It is recommended for electrical engineers, as well as physicists and optical engineers, with an interest in practical negative refractive index structures and materials.

Multiscale Modeling of Complex Molecular Structure and Dynamics with MBN Explorer-Ilia A. Solov'yov 2017-06-01 This book introduces readers to MesoBioNano (MBN) Explorer - a multi-purpose software package designed to model molecular systems at various levels of size and complexity. In addition, it presents a specially designed multi-task toolkit and interface - the MBN Studio - which enables the set-up of input files, controls the simulations, and supports the subsequent visualization and analysis of the results obtained. The book subsequently provides a systematic description of the capabilities of this universal and powerful software package within the framework of computational molecular science, and guides readers through its applications in numerous areas of research in bio- and chemical physics and material science - ranging from the nano- to the mesoscale. MBN Explorer is particularly suited to computing the system's energy, to optimizing molecular structure, and to exploring the various facets of molecular and random walk dynamics. The package allows the use of a broad variety of interatomic potentials and can, e.g., be configured to select any subset of a molecular system as rigid fragments, whenever a significant reduction in the number of dynamical degrees of freedom is required for computational practicalities. MBN Studio enables users to easily construct initial

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geometries for the molecular, liquid, crystalline, gaseous and hybrid systems that serve as input for the subsequent simulations of their physical and chemical properties using MBN Explorer. Despite its universality, the computational efficiency of MBN Explorer is comparable to that of other, more specialized software packages, making it a viable multi-purpose alternative for the computational modeling of complex molecular systems. A number of detailed case studies presented in the second part of this book demonstrate MBN Explorer's usefulness and efficiency in the fields of atomic clusters and nanoparticles, biomolecular systems, nanostructured materials, composite materials and hybrid systems, crystals, liquids and gases, as well as in providing modeling support for novel and emerging technologies. Last but not least, with the release of the 3rd edition of MBN Explorer in spring 2017, a free trial version will be available from the MBN Research Center website ([mbnresearch.com](http://mbnresearch.com)).

Advanced R, Second Edition-Hadley Wickham 2019-05-24 Advanced R helps you understand how R works at a fundamental level. It is designed for R programmers who want to deepen their understanding of the language, and programmers experienced in other languages who want to understand what makes R different and special. This book will teach you the foundations of R; three fundamental programming paradigms (functional, object-oriented, and metaprogramming); and powerful techniques for debugging and optimising your code. By reading this book, you will learn: The difference between an object and its name, and why the distinction is important The important vector data structures, how they fit together, and how you can pull them apart using subsetting The fine details of functions and environments The condition system, which powers messages, warnings, and errors The powerful functional programming paradigm, which can replace many for loops The three most important OO systems: S3, S4, and R6 The tidy eval toolkit for metaprogramming, which allows you to manipulate code and control evaluation Effective debugging techniques that you can deploy, regardless of how your code is run How to find and remove performance bottlenecks The second edition is a comprehensive update: New foundational chapters: "Names and values," "Control flow," and "Conditions" comprehensive coverage of object oriented programming with chapters on S3, S4, R6, and how to choose

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between them Much deeper coverage of metaprogramming, including the new tidy evaluation framework use of new package like rlang (<http://rlang.r-lib.org>), which provides a clean interface to low-level operations, and purr (<http://purrr.tidyverse.org/>) for functional programming Use of color in code chunks and figures Hadley Wickham is Chief Scientist at RStudio, an Adjunct Professor at Stanford University and the University of Auckland, and a member of the R Foundation. He is the lead developer of the tidyverse, a collection of R packages, including ggplot2 and dplyr, designed to support data science. He is also the author of R for Data Science (with Garrett Grolemund), R Packages, and ggplot2: Elegant Graphics for Data Analysis.

Analog Filter and Circuit Design Handbook-Arthur Williams  
2013-10-30 "A single-source design reference providing expert guidance on analog filter and circuit design Analog Filter and Circuit Design Handbook emphasizes the operational amplifier (op-amp) as the key building block, and provides a strong foundation of understanding of how op-amps work and what their limitations are. The book contains numerous circuit examples that provide mathematical functions on analog signals in both a linear and non-linear manner. Audio applications such as audio power amplifiers and cross-over networks are included. Extensive coverage of both active and passive filters Discusses audio power amplifiers, various types of waveforms, and non-linear amplifier applications Leads you through how IC operational amplifiers work, their critical parameters, and how to properly choose the appropriate amplifier for a given application Tables help you select the proper device for your requirements; combining amplifiers made by different manufacturers into a single table saves you from having to perform extensive searches among different manufacturers' websites. Includes free downloads: Filter Solutions from Nuhertz Technologies--enables the design of Elliptic Function low-pass filters up to the tenth order ELI 1.0--allows the design of odd-order elliptic function LC low-pass filters up to a complexity of 15 nulls (transmission zeros) or the 31st order Fltrform--an EXCEL spreadsheet arranged by chapter that contains all the significant formulas to simplify some of the calculations "--

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