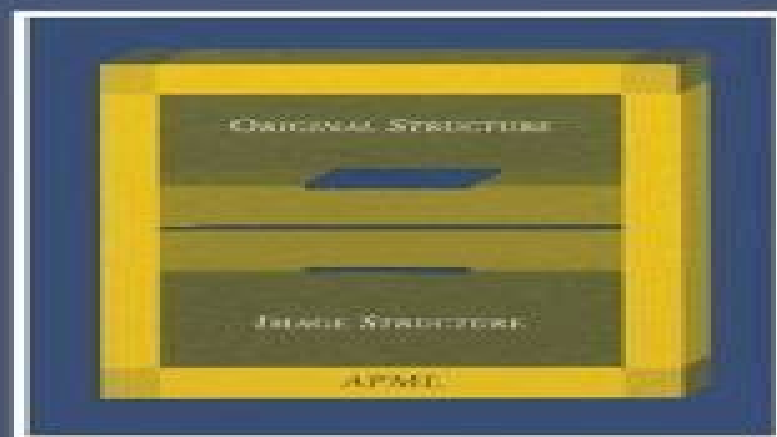


Multiresolution Time Domain Scheme for Electromagnetic Engineering



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Multiresolution Time Domain Scheme For Electromagnetic Engineering

**Yinchao Chen, Qunsheng Cao, Raj
Mittra**



Multiresolution Time Domain Scheme For Electromagnetic Engineering:

Multiresolution Time Domain Scheme for Electromagnetic Engineering Yinchao Chen, Qunsheng Cao, Raj Mittra, 2005-01-28 The rapid development of computer techniques and information technologies in recent decades has fueled the need for efficient tools for electromagnetic modeling of millimeter wave integrated circuits high speed and high density VLSI circuits including computer chips and wireless computer applications *Theory and Computation of Electromagnetic Fields* Jian-Ming Jin, 2015-08-10 Reviews the fundamental concepts behind the theory and computation of electromagnetic fields The book is divided in two parts The first part covers both fundamental theories such as vector analysis Maxwell's equations boundary condition and transmission line theory and advanced topics such as wave transformation addition theorems and fields in layered media in order to benefit students at all levels The second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications These methods include the three fundamental approaches for numerical analysis of electromagnetic fields the finite difference method the finite difference time domain method in particular the finite element method and the integral equation based moment method The second part also examines fast algorithms for solving integral equations and hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems *Theory and Computation of Electromagnetic Fields* Second Edition Provides the foundation necessary for graduate students to learn and understand more advanced topics Discusses electromagnetic analysis in rectangular cylindrical and spherical coordinates Covers computational electromagnetics in both frequency and time domains Includes new and updated homework problems and examples *Theory and Computation of Electromagnetic Fields* Second Edition is written for advanced undergraduate and graduate level electrical engineering students This book can also be used as a reference for professional engineers interested in learning about analysis and computation skills **Multiresolution Frequency Domain Technique for**

Electromagnetics Mesut Gökten, Atef Elsherbeni, Ercument Arvas, 2022-06-01 In this book a general frequency domain numerical method similar to the finite difference frequency domain FDFD technique is presented The proposed method called the multiresolution frequency domain MRFD technique is based on orthogonal Battle Lemarie and biorthogonal Cohen Daubechies Feauveau CDF wavelets The objective of developing this new technique is to achieve a frequency domain scheme which exhibits improved computational efficiency figures compared to the traditional FDFD method reduced memory and simulation time requirements while retaining numerical accuracy The newly introduced MRFD scheme is successfully applied to the analysis of a number of electromagnetic problems such as computation of resonance frequencies of one and three dimensional resonators analysis of propagation characteristics of general guided wave structures and electromagnetic scattering from two dimensional dielectric objects The efficiency characteristics of MRFD techniques based on different wavelets are compared to each other and that of the FDFD method Results indicate that the MRFD techniques provide

substantial savings in terms of execution time and memory requirements compared to the traditional FDTD method Table of Contents Introduction Basics of the Finite Difference Method and Multiresolution Analysis Formulation of the Multiresolution Frequency Domain Schemes Application of MRFD Formulation to Closed Space Structures Application of MRFD Formulation to Open Space Structures A Multiresolution Frequency Domain Formulation for Inhomogeneous Media Conclusion

Advanced FDTD Methods Wenhua Yu, 2011 Advanced FDTD Methods Parallelization Acceleration and Engineering Applications Contents Preface Chapter 1 Computational Electromagnetic Methods 1 1 FDTD METHOD 1 1 1 FDTD Update Equations 1 1 2 Stability Analysis 1 1 3 Boundary Conditions 1 2 METHOD OF MOMENTS 1 3 FINITE ELEMENT METHOD 1 3 1 Scalar Formulation 1 3 2 Vector Formulation 1 4 FINITE INTEGRATION TECHNIQUE References Chapter 2 FDTD Optimization and Acceleration 2 1 INTRODUCTION TO CPU ARCHITECTURE 2 2 SSE INSTRUCTION SET 2 3 CACHE OPTIMIZATION 2 4 TASK PARALLELIZATION AND BUNDLING 2 5 PREFETCH 2 6 READING OR WRITING COMBINATION 2 7 MATERIAL LOOP UP TABLE 2 8 NUMA OPTIMIZATION 2 9 IMPLEMENTATION OF VALU FDTD METHOD References Chapter 3 Parallel FDTD Method and Systems 3 1 PARALLEL FDTD METHOD 3 2 OPENMP FOR MULTICORE PROCESSORS 3 3 MPI TECHNIQUE 3 4 NETWORK CARD SWITCH AND CABLE References Chapter 4 Electromagnetic Simulation Techniques 4 1 MESH GENERATION TECHNIQUES 4 2 BASIC SIMULATION PROCEDURE 4 3 DIPOLE ANTENNA 4 4 VIVALDI ANTENNA SIMULATION 4 5 BANDED MICROWAVE CONNECTOR 4 6 PARALLEL LINES 4 7 TWO PORT ANTENNA 4 8 SLOT COUPLING 4 9 MICROWAVE FILTER 4 10 OPTIMIZATION AND PARAMETER SCAN 4 11 PERIODIC STRUCTURE SIMULATION 4 12 GROUND PENETRATING RADAR MODEL 4 13 MICROWAVE CONNECTOR References Chapter 5 EM Simulation Software Benchmarks 5 1 BASIC STEPS IN EM SIMULATION 5 1 1 HFSS 5 1 2 CST 5 1 3 FEKO 5 1 4 GEMS 5 2 HARDWARE PLATFORMS 5 3 PATCH ANTENNA 5 4 VIVALDI ANTENNA 5 5 SCATTERING OF DIELECTRIC SPHERE 5 6 CELL PHONE ANTENNA 5 7 ELECTROMAGNETIC BANDGAP STRUCTURE 5 8 STANDARD SAR TEST 5 9 WAVEGUIDE FILTER References Chapter 6 Large Multiscale Problem Solving 6 1 RADIO FREQUENCY PROTECTION

Electromagnetic Simulation Techniques Based on the FDTD Method W. Yu, 2009-09-15 Bridges the gap between FDTD theory and the implementation of practical simulation techniques This is the first publication that guides readers step by step through the implementation of electromagnetic simulation techniques based on FDTD methods These simulation techniques serve as an essential bridge between FDTD methods and their applications Moreover the book helps readers better understand the underlying logic of FDTD methods so that they can design FDTD projects using either commercial electromagnetic software packages or their own codes in order to solve practical engineering problems The book begins with two chapters that introduce the basic concepts of the 3 D Cartesian FDTD method followed by discussions of advanced FDTD methods such as conformal techniques dispersive media circuit elements and near to far field transformation Next the book Presents basic concepts of parallel processing techniques and systems including parallel FDTD techniques and systems

Explores simulation techniques based on FDTD methods Illustrates practical simulation techniques using engineering applications Introduces advanced simulation techniques Each chapter concludes with references to help readers investigate particular topics in greater depth Each chapter also includes problem sets that challenge readers to put their new FDTD and simulation skills into practice By bridging the gap between FDTD theory and practical simulation techniques this publication is an invaluable guide for students and engineers who need to solve a wide range of design problems in RF antenna and microwave engineering Localized Waves Hugo E. Hernández-Figueroa, Michel Zamboni-Rached, Erasmo

Recami, 2008-02-04 The first book on Localized Waves a subject of phenomenal worldwide research with important applications from secure communications to medicine Localized waves also known as non diffractive waves are beams and pulses capable of resisting diffraction and dispersion over long distances even in non guiding media Predicted to exist in the early 1970s and obtained theoretically and experimentally as solutions to the wave equations starting in 1992 localized waves now garner intense worldwide research with applications in all fields where a role is played by a wave equation from electromagnetism to acoustics and quantum physics In the electromagnetics areas they are paving the way for instance to ubiquitous secure communications in the range of millimeter waves terahertz frequencies and optics At last the localized waves with an envelope at rest are expected to have important applications especially in medicine Localized Waves brings together the world's most productive researchers in the field to offer a well balanced presentation of theory and experiments in this new and exciting subject Composed of thirteen chapters this dynamic volume Presents a thorough review of the theoretical foundation and historical aspects of localized waves Explores the interconnections of the subject with other technologies and scientific areas Analyzes the effect of arbitrary anisotropies on both continuous wave and pulsed non diffracting fields Describes the physical nature and experimental implementation of localized waves Provides a general overview of wave localization for example in photonic crystals which have received increasing attention in recent years Localized Waves is the first book to cover this emerging topic making it an indispensable resource in particular for researchers in electromagnetics acoustics fundamental physics and free space communications while also serving as a requisite text for graduate students **Inverse Synthetic Aperture Radar Imaging With MATLAB Algorithms** Caner

Ozdemir, 2021-03-22 Build your knowledge of SAR ISAR imaging with this comprehensive and insightful resource The newly revised Second Edition of Inverse Synthetic Aperture Radar Imaging with MATLAB Algorithms covers in greater detail the fundamental and advanced topics necessary for a complete understanding of inverse synthetic aperture radar ISAR imaging and its concepts Distinguished author and academician Caner Ozdemir describes the practical aspects of ISAR imaging and presents illustrative examples of the radar signal processing algorithms used for ISAR imaging The topics in each chapter are supplemented with MATLAB codes to assist readers in better understanding each of the principles discussed within the book This new edition includes discussions of the most up to date topics to arise in the field of ISAR imaging and ISAR hardware

design The book provides a comprehensive analysis of advanced techniques like Fourier based radar imaging algorithms and motion compensation techniques along with radar fundamentals for readers new to the subject The author covers a wide variety of topics including Radar fundamentals including concepts like radar cross section maximum detectable range frequency modulated continuous wave and doppler frequency and pulsed radar The theoretical and practical aspects of signal processing algorithms used in ISAR imaging The numeric implementation of all necessary algorithms in MATLAB ISAR hardware emerging topics on SAR ISAR focusing algorithms such as bistatic ISAR imaging polarimetric ISAR imaging and near field ISAR imaging Applications of SAR ISAR imaging techniques to other radar imaging problems such as thru the wall radar imaging and ground penetrating radar imaging Perfect for graduate students in the fields of electrical and electronics engineering electromagnetism imaging radar and physics Inverse Synthetic Aperture Radar Imaging With MATLAB Algorithms also belongs on the bookshelves of practicing researchers in the related areas looking for a useful resource to assist them in their day to day professional work

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Balanced Microwave Filters Ferran Martín,Lei Zhu,Jiasheng Hong,Francisco Medina,2018-02-26 This book presents and discusses strategies for the design and implementation of common mode suppressed balanced microwave filters including narrowband wideband and ultra wideband filters This book examines differential mode or balanced microwave filters by discussing several implementations of practical realizations of these passive components Topics covered include selective mode suppression designs based on distributed and semi lumped approaches multilayer technologies defect ground structures coupled resonators metamaterials interference techniques and substrate integrated waveguides among others Divided into

five parts Balanced Microwave Filters begins with an introduction that presents the fundamentals of balanced lines circuits and networks Part 2 covers balanced transmission lines with common mode noise suppression including several types of common mode filters and the application of such filters to enhance common mode suppression in balanced bandpass filters Next Part 3 examines wideband and ultra wideband UWB balanced bandpass filters with intrinsic common mode suppression Narrowband and dual band balanced bandpass filters with intrinsic common mode suppression are discussed in Part 4 Finally Part 5 covers other balanced circuits such as balanced power dividers and combiners and differential mode equalizers with common mode filtering In addition the book Explores a research topic of increasing interest due to the growing demand of balanced transmission lines and circuits in modern communication systems Includes contributions from prominent worldwide experts in the field Provides readers with the necessary knowledge to analyze and synthesize balanced filters and circuits Balanced Microwave Filters is an important text for R D engineers professionals and specialists working on the topic of microwave filters Post graduate students and Masters students in the field of microwave engineering and wireless communications especially those involved in courses related to microwave filters and balanced filters and circuits will also find it to be a vital resource

Radio Propagation and Adaptive Antennas for Wireless Communication Links Nathan Blaunstein, Christos G. Christodoulou, 2007-02-26 Antennas and Propagation for Wireless Communication covers the basics of wireless communication system design with emphasis on antennas and propagation It contains information on antenna fundamentals and the latest developments in smart antennas as well as the radiation effects of hand held devices Antennas and Propagation for Wireless Communication provides a complete discussion of all the topics important to the design of wireless communication systems Written by acknowledged authorities in their respective fields the book deals with practical applications and presents real world examples A solutions manual for college adopters accompanies the text Ideal for engineers working in communication antennas and propagation for telecomm military and aerospace applications as well as students of electrical engineering this book covers all topics needed for a complete system design

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