```matlab
 1          % loop to update the velocities and pressures over the time steps, n
 2  -   □ for n = 1 : tnum
 3              % update the non-boundary condition nodes for particle velocity
 4  -          ux(uxM) = ux(uxM) - uCx*(p(pMx1) - p(pMx2));
 5  -          uy(uyM) = uy(uyM) - uCy*(p(pMy1) - p(pMy2));
 6
 7              % update the velocity at the left wall
 8  -          ux(uML) = ((Rx - ZL)/(Rx + ZL))*ux(uML) - (2/(Rx + ZL))*p(pML);
 9
10              % update the velocity at the right wall
11  -          ux(uMR) = ((Rx - ZR)/(Rx + ZR))*ux(uMR) + (2/(Rx + ZR))*p(pMR);
12
13              % update the velocity at the bottom wall
14  -          uy(uMB) = ((Ry - ZB)/(Ry + ZB))*uy(uMB) - (2/(Ry + ZB))*p(pMB);
15
16              % update the velocity at the top wall
17  -          uy(uMT) = ((Ry - ZT)/(Ry + ZT))*uy(uMT) + (2/(Ry + ZT))*p(pMT);
18
19              % update the velocity at the left obstacle
20  -          ux(uMLI) = ((Rx - ZLI)/(Rx + ZLI))*ux(uMLI) - (2/(Rx + ZLI))*p(pMLI);
21
22              % update the velocity at the right obstacle
23  -          ux(uMRI) = ((Rx - ZRI)/(Rx + ZRI))*ux(uMRI) + (2/(Rx + ZRI))*p(pMRI);
24
25              % update the velocity at the bottom obstacle
26  -          uy(uMBI) = ((Ry - ZBI)/(Ry + ZBI))*uy(uMBI) - (2/(Ry + ZBI))*p(pMBI);
27
28              % update the velocity at the top obstacle
29  -          uy(uMTI) = ((Ry - ZTI)/(Ry + ZBI))*uy(uMBI) + (2/(Ry + ZBI))*p(pMBI);
30
31              % set the pressure at the source location(s)
32  -   □      for z = 1 : nS
33  -              p(sgrid(z, 2), sgrid(z, 1)) = ...
34  -                  source(z, n) + p(sgrid(z, 2), sgrid(z, 1));
35  -          end
36
37              % update the pressure at all nodes
38  -          p(pM) = p(pM) - pCx*(ux(uMxp1) - ux(uMxp2))...
39  -              - pCy*(uy(uMyp1) - uy(uMyp2));
40  -   └ end
```

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Microwave Technologies - Recent Advances and New Trends and Applications Hüseyin Şerif Savci,2024-06-05 This book is intended to serve as a technology reference for graduate students researchers and engineers on various microwave engineering subjects The chapters encompass a wide range of topics in microwave engineering from its core science for developers to state of the art applications for its users Besides the fundamental technology related chapters such as advanced analysis techniques of microstrip structures using the finite difference time domain in Julia and tunable microwave filter designs there are chapters covering implementations of microwave technology in different applications such as medical imaging medical heating food drying and remote sensing for radio astronomy The chapters are written based on a collection of theses research papers and case analyses by field experts and academicians The title of the book reflects that each chapter elaborates on a recent advancement or a brand new application of microwave engineering

Electromagnetic Modeling and Simulation Levent Sevgi,2014-03-13 This unique book presents simple easy to use but effective short codes as well as virtual tools that can be used by electrical electronic communication and computer engineers in a broad range of electrical engineering problems Electromagnetic modeling is essential to the design and modeling of antenna radar satellite medical imaging and other applications In this book author Levent Sevgi explains techniques for solving real time complex physical problems using MATLAB based short scripts and comprehensive virtual tools Unique in coverage and tutorial approach Electromagnetic Modeling and Simulation covers fundamental analytical and numerical models that are widely used in teaching research and engineering designs including mode and ray summation approaches with the canonical 2D nonpenetrable parallel plate waveguide as well as FDTD MoM and SSPE scripts The book also establishes an intelligent balance among the essentials of EM MODSIM The Problem the physics The Theory and Models mathematical background and analytical solutions and The Simulations code developing plus validation verification and calibration Classroom tested in graduate level and short courses Electromagnetic Modeling and Simulation Clarifies concepts through numerous worked problems and quizzes provided throughout the book Features valuable MATLAB based user friendly effective engineering and research virtual design tools Includes sample scenarios and video clips recorded during characteristic simulations that visually impact learning available on wiley com Provides readers with their first steps in EM MODSIM as well as tools for medium and high level code developers and users Electromagnetic Modeling and Simulation thoroughly covers the physics mathematical background analytical solutions and code development of electromagnetic modeling making it an ideal resource for electrical engineers and researchers   Advances in Time-Domain Computational Electromagnetic Methods Qiang Ren,Su Yan,Atef Z. Elsherbeni,2022-12-01 Advances in Time Domain Computational Electromagnetic Methods Discover state of the art time domain electromagnetic modeling and simulation algorithms Advances in Time Domain Computational Electromagnetic Methods delivers a thorough exploration of recent developments

in time domain computational methods for solving complex electromagnetic problems The book discusses the main time domain computational electromagnetics techniques including finite difference time domain FDTD finite element time domain FETD discontinuous Galerkin time domain DGTD time domain integral equation TDIE and other methods in electromagnetic multiphysics modeling and simulation and antenna designs The book bridges the gap between academic research and real engineering applications by comprehensively surveying the full picture of current state of the art time domain electromagnetic simulation techniques Among other topics it offers readers discussions of automatic load balancing schemes for DG FETD SETD methods and convolution quadrature time domain integral equation methods for electromagnetic scattering Advances in Time Domain Computational Electromagnetic Methods also includes Introductions to cylindrical spherical and symplectic FDTD as well as FDTD for metasurfaces with GSTC and FDTD for nonlinear metasurfaces Explorations of FETD for dispersive and nonlinear media and SETD DDM for periodic quasi periodic arrays Discussions of TDIE including explicit marching on in time solvers for second kind time domain integral equations TD SIE DDM and convolution quadrature time domain integral equation methods for electromagnetic scattering Treatments of deep learning including time domain electromagnetic forward and inverse modeling using a differentiable programming platform Ideal for undergraduate and graduate students studying the design and development of various kinds of communication systems as well as professionals working in these fields Advances in Time Domain Computational Electromagnetic Methods is also an invaluable resource for those taking advanced graduate courses in computational electromagnetic methods and simulation techniques   *Smart Intelligent Computing and Applications* Suresh Chandra Satapathy,Vikrant Bhateja,Swagatam Das,2018-10-01 The proceedings covers advanced and multi disciplinary research on design of smart computing and informatics The theme of the book broadly focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solution to varied problems in society environment and industries The volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches optimizing solutions in varied disciplines of science technology and healthcare   *Smart Antennas with MATLAB, Second Edition* Frank Gross,2015-02-09 The most complete current guide to smart antenna design and performance Featuring new coverage of reconfigurable antennas vector antennas and direction finding antennas this up to date resource offers a rigorous review of the basic electromagnetic principles that drive smart antenna design and deployment Case studies and worked examples using MATLAB are provided End of chapter assignments reinforce the concepts presented Thoroughly revised to reflect recent developments and the latest technologies this is a comprehensive reference for all professionals students and researchers in the field of smart antennas Smart Antennas with MATLAB Second Edition covers Fundamentals of electromagnetic fields Antenna fundamentals Array fundamentals Principles of random variables and processes Propagation channel characteristics Angle of arrival estimation Smart antennas

Direction finding Electromagnetic vector sensors Smart antenna design and optimization **Advanced Computational Electromagnetic Methods** Wenhua Yu,Wenxing Li,Atef Elsherbeni,Yahya Rahmat-Samii,2015-03-01 This new resource covers the latest developments in computational electromagnetic methods with emphasis on cutting edge applications This book is designed to extend existing literature to the latest development in computational electromagnetic methods which are of interest to readers in both academic and industrial areas The topics include advanced techniques in MoM FEM and FDTD spectral domain method GPU and Phi hardware acceleration metamaterials frequency and time domain integral equations and statistics methods in bio electromagnetics Advances in Natural Language Processing, Intelligent Informatics and Smart Technology Thanaruk Theeramunkong,Rachada Kongkachandra,Thepchai Supnithi,2018-03-15 This book constitutes the thoroughly refereed proceedings of the Eleventh International Symposium on Natural Language Processing SNLP 2016 held in Phranakhon Si Ayutthaya Thailand on February 10 12 2016 The SNLP promotes research in natural language processing and related fields and provides a unique opportunity for researchers professionals and practitioners to discuss various current and advanced issues of interest in NLP The 2016 symposium was expanded to include the First Workshop in Intelligent Informatics and Smart Technology Of the 66 high quality papers accepted this book presents twelve from the Symposium on Natural Language Processing track and ten from the Workshop in Intelligent Informatics and Smart Technology track SSAI Special Session on Artificial Intelligence **Monopole Probe Based Millimeter-wave Quasi-optical Amplifier Arrays** Nicholas John Kolias,1996 **Digest** IEEE Antennas and Propagation Society. International Symposium,2005 *Science Abstracts* ,1995 **Electrical & Electronics Abstracts** ,1997 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1997 *International Aerospace Abstracts* ,1999 **Newsletter** ,2004 *Government Reports Announcements & Index* ,1996 **The Finite-Difference Time-Domain Method for Electromagnetics with MATLAB® Simulations** Atef Z. Elsherbeni,Veysel Demir,2015-11-25 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 Supplementary materials for professors are available upon request via email to books theiet org Numerical Techniques in Electromagnetics with MATLAB Matthew N.O. Sadiku,2018-10-08 Despite the dramatic growth in the availability of powerful computer resources the EM community lacks a comprehensive text on the computational techniques

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silicon substrate The frequency dependent propagation characteristics and dis tributed line parameters for single and symmetric coupled microstrip lines are extracted from FDTD simulation Results show that the lossy substrate can significantly affect the transmission line characteristics To reduce the substrate effects on the microstrip characteristics a new substrate shielding structure consisting of orthogonal grounded lines at the silicon oxide interface is examined It is shown for a single and symmetric coupled microstrip lines that the substrate shield leads to a reduction in transmission line loss without significantly changing the characteristic impedance and effective permittivity of the microstrip structure Using the FDTD approach combined with a new extraction procedure the characteristics of several discontinuities in single and coupled microstrip lines are determined The new extraction procedure for characterizing discontinuities is based on successive excitation of each port and determination of the voltages for the incident and reflected waves The method is applied to several example structures including coupled step and coupled gap discontinuities **Computational Electromagnetics with MATLAB, Fourth Edition** Matthew N.O. Sadiku,2018-07-20 This fourth edition of the text reflects the continuing increase in awareness and use of computational electromagnetics and incorporates advances and refinements made in recent years Most notable among these are the improvements made to the standard algorithm for the finite difference time domain FDTD method and treatment of absorbing boundary conditions in FDTD finite element and transmission line matrix methods It teaches the readers how to pose numerically analyze and solve EM problems to give them the ability to expand their problem solving skills using a variety of methods and to prepare them for research in electromagnetism Includes new homework problems in each chapter Each chapter is updated with the current trends in CEM Adds a new appendix on CEM codes which covers commercial and free codes Provides updated MATLAB code

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