

Numerical Solution of Antennas in Layered Media

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Andrea Benedetto, Lara Pajewski



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Numerical Solution of Antennas in Layered Media Volkert W. Hansen, 1989 This monograph presents a variety of methods for the numerical solution of practical problems especially transient responses in layered media which occur in microwave antenna installations Provides a survey of the present state of research covering the modern applications of methods such as Green's function and the Sommerfeld integrals to practical problems involving dipoles focusing antennas and model calculations

Numerical Solution of Antennas in Layered Media Volkert W. Hansen, 1989 *Computational Electromagnetics for RF and Microwave Engineering* David B. Davidson, 2005-02-24 The numerical approximation of Maxwell's equations Computational Electromagnetics CEM has emerged as a crucial enabling technology for radio frequency microwave and wireless engineering The three most popular full wave methods the Finite Difference Time Domain Method the Method of Moments and the Finite Element Method are introduced in this book by way of one or two dimensional problems Commercial or public domain codes implementing these methods are then applied to complex real world engineering problems and a careful analysis of the reliability of the results obtained is performed along with a discussion of the many pitfalls which can result in inaccurate and misleading solutions The book will empower readers to become discerning users of CEM software with an understanding of the underlying methods and confidence in the results obtained It also introduces readers to the art of code development Aimed at senior undergraduate graduate students taking CEM courses and practising engineers in the industry

Antenna Theory and Design Warren L. Stutzman, Gary A. Thiele, 2012-05-22 Stutzman's 3rd edition of Antenna Theory and Design provides a more pedagogical approach with a greater emphasis on computational methods New features include additional modern material to make the text more exciting and relevant to practicing engineers new chapters on systems low profile elements and base station antennas organizational changes to improve understanding more details to selected important topics such as microstrip antennas and arrays and expanded measurements topic

Computational Methods and Experimental Measurements XIII C. A. Brebbia, G. M. Carlomagno, 2007 Containing papers presented at the Thirteenth International Conference in this well established series on CMEM Computational Methods and Experimental Measurements These proceedings review state of the art developments on the interaction between numerical methods and experimental measurements Featured topics include Computational and Experimental Methods Experimental and Computational Analysis Computer Interaction and Control of Experiments Direct Indirect and In Situ Measurements Particle Methods Structural and Stress Analysis Structural Dynamics Dynamics and Vibrations Electrical and Electromagnetic Applications Biomedical Applications Heat Transfer Thermal Processes Fluid Flow Data Acquisition Remediation and Processing and Industrial Applications

Microstrip and Printed Antennas Debatosh Guha, Yahia M. M. Antar, 2011-02-02 This book focuses on new techniques analysis applications and future trends of microstrip and printed antenna technologies with particular emphasis to recent advances from the last decade Attention is

given to fundamental concepts and techniques their practical applications and the future scope of developments Several topics essayed as individual chapters include reconfigurable antenna ultra wideband UWB antenna reflectarrays antennas for RFID systems and also those for body area networks Also included are antennas using metamaterials and defected ground structures DGSs Essential aspects including advanced design analysis and optimization techniques based on the recent developments have also been addressed Key Features Addresses emerging hot topics of research and applications in microstrip and printed antennas Considers the fundamental concepts techniques applications and future scope of such technologies Discusses modern applications such as wireless base station to mobile handset satellite earth station to airborne communication systems radio frequency identification RFID to body area networks etc Contributions from highly regarded experts and pioneers from the US Europe and Asia This book provides a reference for R D researchers professors practicing engineers and scientists working in these fields Graduate students studying working on related subjects will find this book as a comprehensive literature for understanding the present and future trends in microstrip and printed antennas

Computational Methods for Electromagnetic and Optical Systems, Second Edition John M. Jarem, Partha P. Banerjee, 2011 This text examines a variety of spectral computational techniques including k space theory Floquet theory and beam propagation that are used to analyze electromagnetic and optical problems The authors tie together different applications in EM and optics in which the state variable method is used Emphasizing the analysis of planar diffraction gratings using rigorous coupled wave analysis the book presents many cases that are analyzed using a full field vector approach to solve Maxwell's equations in anisotropic media where a standard wave equation approach is intractable Antenna Radar Cross Section: Theory and Design Ying Liu, Yongtao Jia, Shuxi Gong, 2025-04-19 This is the first book to focus specifically on antenna RCS reduction theory and design approaches It covers both principles and engineering practice and provides an in depth study of a number of important topics including fundamental theory antenna and array analysis models the rapid numerical computation method and various low RCS antenna design methods The comprehensive and systematic discussion of practical issues in antenna RCS reduction makes it an ideal resource for readers interested in practical solutions to antenna stealth particularly researchers engineers and graduate students in the fields of microwave engineering electrical and electronic engineering and telecommunications engineering **Computational Methods for Electromagnetic and Optical Systems** John M. Jarem, Partha P. Banerjee, 2016-04-19 The current rapid and complex advancement applications of electromagnetic EM and optical systems calls for a much needed update on the computational methods currently in use Completely revised and reflecting ten years of developments this second edition of the bestselling *Computational Methods for Electromagnetic and Optical Systems* provides the update so desperately needed in this field Offering a wealth of new material this second edition begins with scalar wave propagation and analysis techniques chiral and metamaterials and photonic band gap structures It examines Poynting vector and stored energy as well as energy group and phase velocities

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reviews k space state variable formation with applications to anisotropic planar systems and presents full field rigorous coupled wave analysis of planar diffraction gratings with applications to H mode E mode crossed gratings single and multilayered diffraction grating analysis and diffraction from anisotropic gratings Later chapters highlight spectral techniques and RCWA as applied to the analysis of dynamic wave mixing in PR materials with induced transmission and reflection gratings and demonstrate the RCWA algorithm to analyze cylindrical and spherical systems using circular bipolar cylindrical and spherical coordinates The book concludes with several RCWA computational case studies involving scattering from spatially inhomogeneous eccentric circular cylinders solved in bipolar coordinates Many of these examples apply the complex Poynting theorem or the forward scattering optical theorem to validate numerical solutions by verifying power conservation Using common computational tools such as Fortran MATLAB COMSOL and RSOFT the text offers numerous examples to illuminate the material many of which employ a full field vector approach to analyze and solve Maxwell's equations in anisotropic media where a standard wave equation approach is intractable Designed to introduce novel spectral computational techniques the book demonstrates the application of these methods to analyze a variety of EM and optical systems

Recent Technical Developments in Energy-Efficient 5G Mobile Cells Raed A. Abd-Alhameed, Issa Elfergani, Jonathan Rodriguez, 2020-06-17 This book addresses the true innovation in engineering design that may be promoted by blending together models and methodologies from different disciplines and in this book the target was exactly to follow this approach to deliver a new disruptive architecture to deliver these next generation mobile small cell technologies According to this design philosophy the work within this book resides in the intersection of engineering paradigms that includes cooperation network coding and smart energy aware frontends These technologies will not only be considered as individual building blocks but re-engineered according to an inter design approach resulting in the enabler for energy efficient femtocell like services on the move The book aims to narrow the gap between the current networking technologies and the foreseen requirements that are targeted at the future development of the 5G mobile and wireless communications networks in terms of the higher networking capacity the ability to support more users the lower cost per bit the enhanced energy efficiency and adaptability to new services and devices for example smart cities and the Internet of things IoT

CAD of Wire Antennas and Related Radiating Structures Branko D. Popović, 1991 A discourse on the computer aided design of wire antennas which provides numerous examples of the scope of CAD processes including descriptions of the WireZeus based CAD of antennas and related radiating structures along with their matching networks

Waves and Fields in Inhomogeneous Media Weng Cho Chew, 1999-02-02 Electrical Engineering Electromagnetics Waves and Fields in Inhomogeneous Media A Volume in the IEEE Press Series on Electromagnetic Waves Donald G Dudley Series Editor it is one of the best wave propagation treatments to appear in many years Gerardo G Tango CPG Consulting Seismologist Acoustician Covington LA This comprehensive text thoroughly covers fundamental wave propagation behaviors

and computational techniques for waves in inhomogeneous media The author describes powerful and sophisticated analytic and numerical methods to solve electromagnetic problems for complex media and geometry as well Problems are presented as realistic models of actual situations which arise in the areas of optics radio wave propagation geophysical prospecting nondestructive testing biological sensing and remote sensing Key topics covered include Analytical methods for planarly cylindrically and spherically layered media Transient waves including the Cagniard de Hoop method Variational methods for the scalar wave equation and the electromagnetic wave equation Mode matching techniques for inhomogeneous media The Dyadic Green's function and its role in simplifying problem solving in inhomogeneous media Integral equation formulations and inverse problems Time domain techniques for inhomogeneous media This book will be of interest to electromagnetics and remote sensing engineers physicists scientists and geophysicists This IEEE Press reprinting of the 1990 version published by Van Nostrand Reinhold incorporates corrections and minor updating Also in the series Mathematical Foundations for Electromagnetic Theory by Donald G Dudley University of Arizona at Tucson This volume in the series lays the mathematical foundations for the study of advanced topics in electromagnetic theory Important subjects covered include linear spaces Green's functions spectral expansions electromagnetic source representations and electromagnetic boundary value problems 1994 Hardcover 264 pp ISBN 0 7803 1022 5 IEEE Order No PC3715 About the Series The IEEE Press Series on Electromagnetic Waves consists of new titles as well as reprints and revisions of recognized classics that maintain long term archival significance in electromagnetic waves and applications Designed specifically for graduate students practicing engineers and researchers this series provides affordable volumes that explore electromagnetic waves and applications beyond the undergraduate level

Ground Penetrating Radar Mohammed Serhir, Dominique Lesselier, 2024-05-29 This book offers an overview of modern advances in Ground Penetrating Radar GPR for the reader hoping to understand comprehensive electromagnetic culture combining instrumental development of radar signal processing imaging and calibration correction of measured data GPR has a multi disciplinary character that can bring together a diverse and broad community Of concern are the design and optimization of innovative radars by virtue of the antennas and associated electronics imaging algorithms methodological diversity calibration procedures and the development of tools for the interpretation of data in mono static or multi static configurations within frequency or transient domains This book provides illustrations in civil engineering for the diagnosis of transport infrastructures and buildings archeological surveys for the appreciation of cultural heritage detection of underground pipes and cavities estimation of soil water content for agriculture and mapping of root trees developing underground and in planetology the analysis of the internal structure of planets and other celestial bodies through electromagnetic waves

Electromagnetics Edward J. Rothwell, Michael J. Cloud, 2018-04-17 Providing an ideal transition from introductory to advanced concepts this book builds a foundation that allows electrical engineers to confidently proceed with the development of advanced EM studies research and applications

New topics include quasistatics vector spherical wave functions and wave matrices Several application oriented sections covering guided waves and transmission lines particle dynamics shielding electromagnetic material characterization and antennas have also been added Mathematical appendices present helpful background information in the areas of Fourier transforms dyadics and boundary value problems Key Features Provides extensive end of chapter problems Includes numerous solved examples with detailed explanations and interpretations Introduces the reader to numerical electromagnetics and integral equations Each chapter offers an introduction to an important application of electromagnetics Emphasizes fundamentals while covering all of the important topics in electromagnetics

Antennas and Propagation for Body-Centric Wireless Communications, Second Edition Peter S. Hall, Yang Hao, 2012 Now in a newly updated and revised edition this timely resource provides you with complete and current details on the theory design and applications of wireless antennas for on body electronic systems The Second Edition offers readers brand new material on advances in physical phantom design and production recent developments in simulation methods and numerical phantoms descriptions of methods for simulation of moving bodies and the use of the body as a transmission channel You also find a completely revised chapter on channel characterization and antenna design at microwave frequencies This cutting edge volume brings you the state of the art in existing applications like Bluetooth headsets together with detailed treatment of techniques tools and challenges in developing on body antennas for an array of medical emergency response law enforcement personal entertainment and military applications on the horizon The book briefs you on energy propagation around and into the body and how to estimate performance of on body wireless links and then dives into the nuts and bolts of designing antenna systems that deliver the goods It covers on body communication channels at microwave frequency bands and at low frequency bands as well as ultra wideband systems for WPANs and WBANs You get details on body centric UWB antennas and channels as well as advances in wearable mobile EBG and smart fabric antennas for cellular and WLAN communications Chapters on telemedicine applications such as remote diagnoses and implantable medical devices cover crucial propagation issues and other obstacles that need to be addressed Rounding out the coverage is a section on antenna design for body sensor networks and their emerging military and space applications Packed with hands on guidance from noted experts this volume will be indispensable for your efforts in designing and improving body centric communication systems

Civil Engineering Applications of Ground Penetrating Radar Andrea Benedetto, Lara Pajewski, 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 **Scientific and Technical Aerospace Reports** ,1994 **Research in Progress** United States. Army Research Office,1985 Vols for 1977 consist of two parts Chemistry biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall **Advanced Ultrawideband Radar** James D. Taylor,2016-12-19 This book presents the latest theory developments and applications related to high resolution materials penetrating sensor systems An international team of expert researchers explains the problems and solutions for developing new techniques and applications Subject areas include ultrawideband UWB signals propagation and scattering materials penetrating radar techniques for small object detection and imaging biolocation using holographic techniques tomography medical applications nondestructive testing methods electronic warfare principles through the wall radar propagation effects and target identification through measuring the target return signal spectrum changes Research in Progress ,1982

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