METHODS FOR ELECTROMAGNETIC FIELD ANALYSIS

Methods For Electromagnetic Field Analysis

Jian-Ming Jin

Methods For Electromagnetic Field Analysis:

Methods for Electromagnetic Field Analysis Ismo V. Lindell,1996-01-21 Electrical Engineering Electromagnetics Methods for Electromagnetic Field Analysis A volume in the IEEE Series on Electromagnetic Wave Theory Donald G Dudley Series Editor a gigantic platter of formulae of the dyadic kind Akhlesh Lakhtaki Professor The Pennsylvania State University This monograph discusses mathematical and conceptual methods applicable in the analysis of electromagnetic fields and waves Dyadic algebra is reviewed and armed with new identities it is applied throughout the book The power of dyadic operations is seen when working with boundary sheet and interface conditions medium equations field transformations Greens functions plane wave problems vector circuit theory multipole and image sources Dyadic algebra offers convenience in handling problems involving chiral and bianisotropic media of recent interest because of their wide range of potential applications The final chapter gives for the first time in book form a unified presentation of EIT the exact image theory introduced by this author and colleagues EIT is a general method for solving problems involving layered media by replacing them through image sources located in complex space The main emphasis of the monograph is not on specific results but methods of analysis The contents should be of interest to scientists doing research work in various fields of electromagnetics as well as to graduate students The addition of problems and answers in this reprint will enhance the teaching value of this work Also in the series Mathematical Foundations for Electromagnetic Theory Donald D Dudley University of Arizona Tucson 1994 Hardcover 256 pp Methods for Electromagnetic Wave Propagation D S Jones University of Dundee 1995 Hardcover 672 pp The Transmission Line Modeling Method TLM Christos Christopoulos University of Nottingham 1995 Hardcover 232 pp

Analysis Methods for Electromagnetic Wave Problems Eikichi Yamashita,1990 Here are the newest methods for using computers to design linear antennas and microwave printed circuits Learn how to use supercomputers to apply the FD TD and the FE methods and how to develop computation programs Includes the methods of antenna analysis with integral equation physical optics approximation electromagnetic wave scattering due to random surface eigen function expansion and rectangular boundary division Features practice problems and answers plus examples of actual calculation programs With 132 diagrams and 1121 equations **Methods for Electromagnetic Field Analysis** ,1900 *Optical Electromagnetic Field Analysis Using Python* Kotaro Kajikawa,Takayuki Okamoto,2025-07-31 In this book Kajikawa and Okamoto explain how to use Python to calculate and visualize the optical response of microscopic structures and systems Throughout the authors provide varied examples to instruct readers in the application of theoretical knowledge to real world scenarios Electromagnetic field analysis is often necessary to determine the optical response of materials with microscopic structures Although the principles are widely described the manual calculation and visualization of results are not and remain challenging Python is the ideal language to use for this as it has a large functional library for visualizing analysis results and is suitable for programming beginners to use at low cost so it has many advantages over languages like Fortran BASIC and C

Here the authors introduce the application of Python to various electromagnetic field analysis scenarios in the field of nanophotonics The first half of the book describes cases in which there is an analytical solution for the structure and addresses scenarios such as scattering and absorption in spherical and cylindrical structures and complex structures such as rotating ellipsoids sphere aggregated structures and hemispherical structures The second half describes methods including rigorous coupling wave analysis finite difference time domain method and discrete dipole approximation for numerically solving varied structures This book enables readers to conduct their own electromagnetic field analysis quickly cheaply and accurately without in depth study of other complicated and time consuming approaches or programs This book is invaluable for researchers and postgraduate students working in the fields of optics and photonics Additionally the contents are useful not only for those conducting electromagnetic field analysis but also those simulating physical chemical and biological phenomena   **Numerical Analysis of Electromagnetic Fields** Pei-bai Zhou,2012-12-06 Numerical methods for solving boundary value problems have developed rapidly Knowledge of these methods is important both for engineers and scientists There are many books published that deal with various approximate methods such as the finite element method the boundary element method and so on However there is no textbook that includes all of these methods This book is intended to fill this gap The book is designed to be suitable for graduate students in engineering science for senior undergraduate students as well as for scientists and engineers who are interested in electromagnetic fields Objective Numerical calculation is the combination of mathematical methods and field theory A great number of mathematical concepts principles and techniques are discussed and many computational techniques are considered in dealing with practical problems The purpose of this book is to provide students with a solid background in numerical analysis of the field problems The book emphasizes the basic theories and universal principles of different numerical methods and describes why and how different methods work Readers will then understand any methods which have not been introduced and will be able to develop their own new methods Organization Many of the most important numerical methods are covered in this book All of these are discussed and compared with each other so that the reader has a clear picture of their particular advantage disadvantage and the relation between each of them The book is divided into four parts and twelve chapters   **Electric Field Analysis** Sivaji Chakravorti,2017-12-19 Electric Field Analysis is both a student friendly textbook and a valuable tool for engineers and physicists engaged in the design work of high voltage insulation systems The text begins by introducing the physical and mathematical fundamentals of electric fields presenting problems from power and dielectric engineering to show how the theories are put into practice The book then describes various techniques for electric field analysis and their significance in the validation of numerically computed results as well as Discusses finite difference finite element charge simulation and surface charge simulation methods for the numerical computation of electric fields Provides case studies for electric field distribution in a cable termination around a post insulator in a condenser bushing and around a gas insulated substation GIS

spacer Explores numerical field calculation for electric field optimization demonstrating contour correction and examining the application of artificial neural networks Explains how high voltage field optimization studies are carried out to meet the desired engineering needs Electric Field Analysis is accompanied by an easy to use yet comprehensive software for electric field computation The software along with a wealth of supporting content is available for download with qualifying course adoption **Theory and Computation of Electromagnetic Fields** Jian-Ming Jin,2011-03-16 This book is intended to serve as a textbook for an entry level graduate course on electromagnetics first seven chapters and for an advanced level graduate course on computational electromagnetics last five chapters Whereas there are several textbooks available for the graduate electromagnetics course no textbook is available for the advanced course on computational electromagnetics This book is intended to fill this void and present electromagnetic theory in a systematic manner so that students can advance from the first course to the second without much difficulty Even though the first part of the book covers the standard basic electromagnetic theory the coverage is different from that in existing textbooks This is mainly the result of the undergraduate curriculum reform that occurred during the past two decades Many universities reduced the number of required courses in order to give students more freedom to design their own portfolio As a result only one electromagnetics course is required for undergraduate students in most electrical engineering departments in the country New graduate students come to take the graduate electromagnetics course with a significant difference in their knowledge of basic electromagnetic theory To meet the challenge to benefit all students of backgrounds this book covers both fundamental theories such as vector analysis Maxwell s equations and boundary conditions and transmission line theory and advanced topics such as wave transformation addition theorems and scattering by a layered sphere **Scientific and Engineering Computations for the 21st Century - Methodologies and Applications** M. Mori,T. Mitsui,2002-12-03 The 20th century saw tremendous achievements and progress in science and technology Undoubtedly computers and computer related technologies acted as one of vital catalysts for accelerating this progress in the latter half of the century The contributions of mathematical sciences have been equally profound and the synergy between mathematics and computer science has played a key role in accelerating the progress of both fields as well as science and engineering Mathematical sciences will undoubtedly continue to play this vital role in this new century In particular mathematical modeling and numerical simulation will continue to be among the essential methodologies for solving massive and complex problems that arise in science engineering and manufacturing Underpinning this all from a sound theoretical perspective will be numerical algorithms In recognition of this observation this volume focuses on the following specific topics 1 Fundamental numerical algorithms 2 Applications of numerical algorithms 3 Emerging technologies The articles included in this issue by experts on advanced scientific and engineering computations from numerous countries elucidate state of the art achievements in these three topics from various angles and suggest the future directions Although we cannot hope to cover all the aspects in

scientific and engineering computations we hope that the articles will interest inform and inspire members of the science and engineering community **Electromagnetic Fields in Electrical Engineering** Andrzej Krawczyk,S. Wiak,2002 This volume includes contributions on field theory and advanced computational electromagnetics electrical machines and transformers optimization and interactive design electromagnetics in materials coupled field and electromagnetic components in mechatronics induction heating systems bioelectromagnetics and electromagnetics in education

Computational Methods in Electromagnetic Compatibility Dragan Poljak,Khalil El Khamlichi Drissi,2018-04-24 Offers a comprehensive overview of the recent advances in the area of computational electromagnetics Computational Method in Electromagnetic Compatibility offers a review of the most recent advances in computational electromagnetics The authors noted experts in the field examine similar problems by taking different approaches related to antenna theory models and transmission line methods They discuss various solution methods related to boundary integral equation techniques and finite difference techniques The topics covered are related to realistic antenna systems including antennas for air traffic control or ground penetrating radar antennas grounding systems such as grounding systems for wind turbines biomedical applications of electromagnetic fields such as transcranial magnetic stimulation and much more The text features a number of illustrative computational examples and a reference list at the end of each chapter The book is grounded in a rigorous theoretical approach and offers mathematical details of the formulations and solution methods This important text Provides a trade off between a highly efficient transmission line approach and antenna theory models providing analysis of high frequency and transient phenomena Contains the newest information on EMC analysis and design principles Discusses electromagnetic field coupling to thin wire configurations and modeling in bioelectromagnetics Written for engineering students senior researchers and practicing electrical engineers Computational Method in Electromagnetic Compatibility provides a valuable resource in the design of equipment working in a common electromagnetic environment *Methods in Electromagnetic Wave Propagation* Douglas Samuel Jones,D. S. J. Jones,1994-02-05 Co published with Oxford University Press This new edition takes account of the most recent analytical progress that has been made in the field of electromagnetic wave propagation and the impact of the wider availability of powerful computers The aim of this book is to develop a suitable framework of theory and numerical analysis with applications to various aspects of the propagation of electromagnetic waves The conjugate gradient method and CGFFT are given extensive treatment The coverage of finite methods has been expanded and conforming finite elements particularly appropriate to electromagnetic applications are described New topics have been added to this edition including Sobolev spaces vector optimization absorbing boundary conditions and surface radiation conditions **Electromagnetic Modeling by Finite Element Methods** João Pedro A. Bastos,Nelson Sadowski,2003-04-01 Unlike any other source in the field this valuable reference clearly examines key aspects of the finite element method FEM for electromagnetic analysis of low frequency electrical devices The authors examine

phenomena such as nonlinearity mechanical force electrical circuit coupling vibration heat and movement for applications in the elect   *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

   Electromagnetic Analysis and Design in Magnetic Resonance Imaging Jianming Jin,1998-09-29 This book presents a comprehensive treatment of electromagnetic analysis and design of three critical devices for an MRI system the magnet gradient coils and radiofrequency RF coils Electromagnetic Analysis and Design in Magnetic Resonance Imaging is unique in its detailed examination of the analysis and design of the hardware for an MRI system It takes an engineering perspective to serve the many scientists and engineers in this rapidly expanding field Chapters present an introduction to MRI basic concepts of electromagnetics including Helmholtz and Maxwell coils inductance calculation and magnetic fields produced by special cylindrical and spherical surface currents principles for the analysis and design of gradient coils including discrete wires and the target field method analysis of RF coils based on the equivalent lumped circuit model as well as an analysis based on the integral equation formulation survey of special purpose RF coils analytical and numerical methods for the analysis of electromagnetic fields in biological objects With the continued active development of MRI instrumentation Electromagnetic Analysis and Design in Magnetic Resonance Imaging presents an excellent logically organized text an indispensable resource for engineers physicists and graduate students working in the field of MRI   **Analysis of Electromagnetic Fields and Waves** Reinhold Pregla,2008-04-30 The Method of Lines MOL is a versatile approach to obtaining numerical solutions to partial differential equations PDEs as they appear in dynamic and static problems This method popular in science and engineering essentially reduces PDEs to a set of ordinary differential equations that can be integrated using standard numerical integration methods Its significant advantage is that the analysis algorithms follow the physical wave propagation and are therefore efficient This is because the fields on the discretisation lines are described by generalised transmission line GTL equations With this formulation we have a connection to the well known transmission line theory and resulting in an easy understanding The method of lines is a very accurate and powerful way to analyze electromagnetic waves enabling a full wave solution without the computational burden of pure finite element or finite difference methods With Analysis of Electromagnetic Fields and Waves Reinhold Pregla describes an important and powerful method for analyzing electromagnetic waves This book Describes the general analysis principles for electromagnetic fields Includes applications in microwave millimetre wave and optical frequency regions Unifies the analysis by introducing

generalised transmission line GTL equations for all orthogonal coordinate systems and with materials of arbitrary anisotropy as a common start point Demonstrates a unique analysis principle with the numerical stable impedance admittance transformation and a physical adapted field transformation concept that is also useful for other modelling algorithms Includes chapters on Eigenmode calculations for various waveguides concatenations and junctions of arbitrary number of different waveguide sections in complex devices periodic structures e g Bragg gratings meander lines clystron resonators photonic crystals antennas e g circular and conformal Enables the reader to solve partial differential equations in other physical areas by using the described principles Features an accompanying website with program codes in Matlab for special problems Analysis of Electromagnetic Fields and Waves will appeal to electromagnetic field practitioners in primary and applied research as well as postgraduate students in the areas of photonics micro and millimetre waves general electromagnetics e g microwave integrated circuits antennas integrated and fibre optics optoelectronics nanophotonics microstructures artificial materials *Field Models in Electricity and Magnetism* Paolo Di Barba,Antonio Savini,Slawomir Wiak,2008-02-20 Covering the development of field computation in the past forty years this book is a concise comprehensive and up to date introduction to methods for the analysis and synthesis of electric and magnetic fields A broad view of the subject of field models in electricity and magnetism ranging from basic theory to numerical applications is offered The approach throughout is to solve field problems directly from partial differential equations in terms of vector quantities

The Finite Element Method in Electromagnetics Jian-Ming Jin,2014-03-31 A new edition of the leading textbook on the finite element method incorporating major advancements and further applications in the field of electromagnetics The finite element method FEM is a powerful simulation technique used to solve boundary value problems in a variety of engineering circumstances It has been widely used for analysis of electromagnetic fields in antennas radar scattering RF and microwave engineering high speed high frequency circuits wireless communication electromagnetic compatibility photonics remote sensing biomedical engineering and space exploration The Finite Element Method in Electromagnetics Third Edition explains the method s processes and techniques in careful meticulous prose and covers not only essential finite element method theory but also its latest developments and applications giving engineers a methodical way to quickly master this very powerful numerical technique for solving practical often complicated electromagnetic problems Featuring over thirty percent new material the third edition of this essential and comprehensive text now includes A wider range of applications including antennas phased arrays electric machines high frequency circuits and crystal photonics The finite element analysis of wave propagation scattering and radiation in periodic structures The time domain finite element method for analysis of wideband antennas and transient electromagnetic phenomena Novel domain decomposition techniques for parallel computation and efficient simulation of large scale problems such as phased array antennas and photonic crystals Along with a great many examples The Finite Element Method in Electromagnetics is an ideal book for engineering students as well as

for professionals in the field **Multigrid Finite Element Methods for Electromagnetic Field Modeling** Yu Zhu,Andreas C. Cangellaris,2006-02-17 This is the first comprehensive monograph that features state of the art multigrid methods for enhancing the modeling versatility numerical robustness and computational efficiency of one of the most popular classes of numerical electromagnetic field modeling methods the method of finite elements The focus of the publication is the development of robust preconditioners for the iterative solution of electromagnetic field boundary value problems BVPs discretized by means of finite methods Specifically the authors set forth their own successful attempts to utilize concepts from multigrid and multilevel methods for the effective preconditioning of matrices resulting from the approximation of electromagnetic BVPs using finite methods Following the authors careful explanations and step by step instruction readers can duplicate the authors results and take advantage of today s state of the art multigrid multilevel preconditioners for finite element based iterative electromagnetic field solvers Among the highlights of coverage are Application of multigrid multilevel and hybrid multigrid multilevel preconditioners to electromagnetic scattering and radiation problems Broadband robust numerical modeling of passive microwave components and circuits Robust finite element based modal analysis of electromagnetic waveguides and cavities Application of Krylov subspace based methodologies for reduced order macromodeling of electromagnetic devices and systems Finite element modeling of electromagnetic waves in periodic structures The authors provide more than thirty detailed algorithms alongside pseudo codes to assist readers with practical computer implementation In addition each chapter includes an applications section with helpful numerical examples that validate the authors methodologies and demonstrate their computational efficiency and robustness This groundbreaking book with its coverage of an exciting new enabling computer aided design technology is an essential reference for computer programmers designers and engineers as well as graduate students in engineering and applied physics **Singular Electromagnetic Fields and Sources** Jean G. Van Bladel,1996-01-21 Electrical Engineering Electromagnetics Singular Electromagnetic Fields and Sources A volume in the IEEE Series on Electromagnetic Wave Theory Donald D Dudley Series Editor I will cherish my copy of this gem James R Wait This is a companion volume to the many available graduate textbooks on electromagnetic theory It is devoted to a study of the infinities in electromagnetic fields and in their sources Three types of singularities are investigated 1 Those associated with strongly concentrated sources of charge and current the relevant densities are expressed in terms of delta functions and derivatives 2 Those associated with the fields resulting from strongly concentrated sources 3 Those which occur at sharp edges and vertices of cones and sectors The approach is both theoretical and numerical The information presented far from being purely formal is of importance for practical work It can be used for example to accelerate significantly the convergence of a numerical algorithm The book is written for electrical engineers and applied physicists who have an interest in the general topic of Maxwell s equations and more particularly for those who are engaged in the actual solution of electromagnetic problems The mathematical level of the text is that of the applied

mathematician An introductory chapter on Distribution Theory has been written in that spirit Also in the series Mathematical Foundations for Electromagnetic Theory Donald D Dudley University of Arizona Tucson 1994 Hardcover 256 pp Methods for Electromagnetic Field Analysis Ismo V Lindell Helsinki University of Technology 1992 Hardcover 320 pp The Transmission Line Modeling Method TLM Christos Christopoulos University of Nottingham 1995 Hardcover 232 pp   *The Transmission-line Modeling Method* Christos Christopoulos,1995 Written by renowned researcher Christos Christopoulos this book covers a broad area of electromagnetics including microwaves antennas radar cross section electromagnetic compatibility and electromagnetic heating In addition you will find a clear explanation of modeling principles from lumped components through one two and three dimensional complex systems

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Methods For Electromagnetic Field Analysis**

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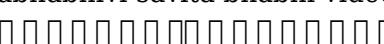
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