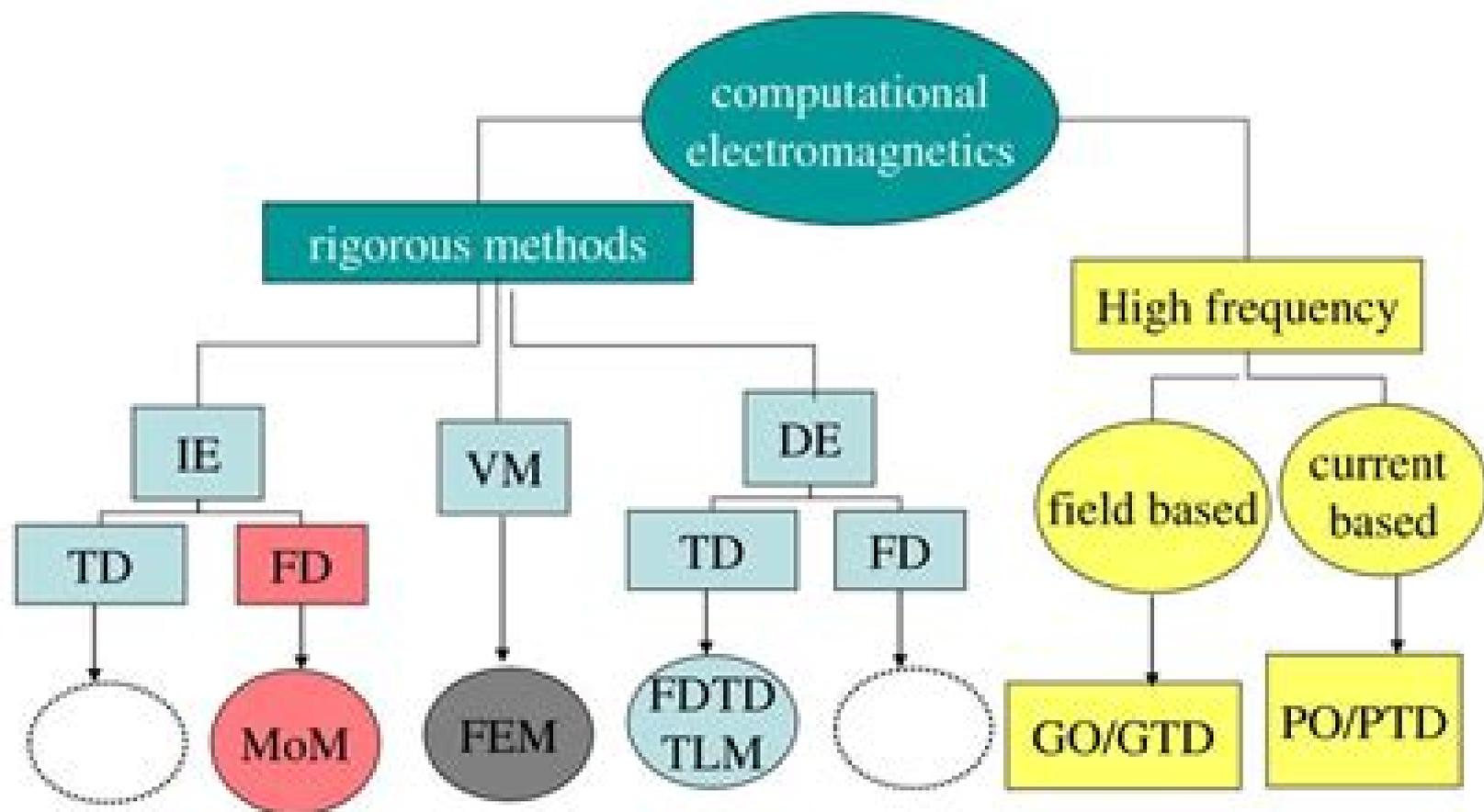


Computational Electromagnetics



Computational Methods For Electromagnetics

Jian-Ming Jin



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Analytical and Computational Methods in Electromagnetics Ramesh Garg, 2008 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.

Computational Methods in Electromagnetics Chalmers M. Butler, Roger F. Harrington, Edmund Kenneth Miller, Raj Mittra, Donald R. Wilton, 1981 **Computational Methods for Electromagnetics and Microwaves** Richard C. Booton, 1992-05-07 Emphasizes electromagnetic and microwave problems and the fundamental algorithms which can be used as the basis for computer programs that produce useful numerical results. Includes relevant computer project descriptions in related chapters. A requirement for any student doing work in electromagnetics. **Computational Methods for**

Electromagnetics Richard C. Booton, 1992 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, 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 RSOFTE 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

Computational Methods in Geophysical Electromagnetics Eldad Haber,2014-12-11 This monograph provides a framework for students and practitioners who are working on the solution of electromagnetic imaging in geophysics Bridging the gap between theory and practical applied material for example inverse and forward problems it provides a simple explanation of finite volume discretization basic concepts in solving inverse problems through optimization a summary of applied electromagnetics methods and MATLAB code for efficient computation

Computational Methods for Electromagnetic Phenomena Wei Cai,2012 A unique and comprehensive graduate text and reference on numerical methods for electromagnetic phenomena from atomistic to continuum scales in biology micro to optical waves photonics nanoelectronics and plasmas The state of the art numerical methods described include Statistical fluctuation formula for the dielectric constant Particle Mesh Ewald Fast Multipole Method and image based reaction field method for long range interactions High order singular hypersingular Nystr m collocation Galerkin boundary and volume integral methods in layered media for Poisson Boltzmann electrostatics electromagnetic wave scattering and electron density waves in quantum dots Absorbing and UPML boundary conditions High order hierarchical N d lec edge elements High order discontinuous Galerkin DG and Yee finite difference time domain methods Finite element and plane wave frequency domain methods for periodic structures Generalized DG beam propagation method for optical waveguides NEGF Non equilibrium Green s function and Wigner kinetic methods for quantum transport High order WENO and Godunov and central schemes for hydrodynamics transport Vlasov Fokker Planck and PIC and constrained MHD transport in plasmas

Computational Methods in Electromagnetic Compatibility Dragan Poljak,Khalil El Khamlichi Drissi,2018-05-10 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

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

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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

Computational Electromagnetics Anders Bondeson, Thomas Rylander, Pär Ingelström, 2008-11-01 Describes most popular computational methods used to solve problems in electromagnetics Matlab code is included throughout so that the reader can implement the various techniques discussed Exercises included

[Computational Methods for Electromagnetic Phenomena](#) Wei Cai, 2012

Advances in Computational Methods in Electromagnetics, 1999

Essentials of Computational Electromagnetics Xin-Qing Sheng, Wei Song, 2011-12-21 Essentials of Computational Electromagnetics provides an in depth introduction of the three main full wave numerical methods in computational electromagnetics CEM namely the method of moment MoM the finite element method FEM and the finite difference time domain FDTD method

Numerous monographs can be found addressing one of the above three methods. However, few give a broad general overview of essentials embodied in these methods or were published too early to include recent advances. Furthermore, many existing monographs only present the final numerical results without specifying practical issues such as how to convert discretized formulations into computer programs and the numerical characteristics of the computer programs. In this book, the authors elaborate the above three methods in CEM using practical case studies explaining their own research experiences along with a review of current literature. A full analysis is provided for typical cases including characteristics of numerical methods helping beginners to develop a quick and deep understanding of the essentials of CEM. Outlines practical issues such as how to convert discretized formulations into computer programs. Gives typical computer programs and their numerical characteristics along with line-by-line explanations of programs. Uses practical examples from the authors' own work as well as in the current literature. Includes exercise problems to give readers a better understanding of the material. Introduces the available commercial software and their limitations. This book is intended for graduate-level students in antennas and propagation, microwaves, microelectronics, and electromagnetics. This text can also be used by researchers in electrical and electronic engineering and software developers interested in writing their own code or understanding the detailed workings of code.

Companion website for the book: http://www.wiley.com/go/sheng_cem

The Nyström Method in Electromagnetics Mei Song Tong, Weng Cho Chew, 2020-07-06

A comprehensive step-by-step reference to the Nyström Method for solving electromagnetic problems using integral equations. Computational electromagnetics studies the numerical methods or techniques that solve electromagnetic problems by computer programming. Currently, there are mainly three numerical methods for electromagnetic problems: the finite difference time domain (FDTD), finite element method (FEM), and integral equation methods (IEMs). In the IEMs, the method of moments (MoM) is the most widely used method, but much attention is being paid to the Nyström method as another IEM because it possesses some unique merits which the MoM lacks. This book focuses on that method, providing information on everything that students and professionals working in the field need to know. Written by the top researchers in electromagnetics, this complete reference book is a consolidation of advances made in the use of the Nyström method for solving electromagnetic integral equations. It begins by introducing the fundamentals of the electromagnetic theory and computational electromagnetics before proceeding to illustrate the advantages unique to the Nyström method through rigorously worked-out examples and equations. Key topics include quadrature rules, singularity treatment techniques, applications to conducting and penetrable media, multiphysics electromagnetic problems, time-domain integral equations, inverse scattering problems, and incorporation with multilevel fast multiple algorithm. Systematically introduces the fundamental principles, equations, and advantages of the Nyström method for solving electromagnetic problems. Features the unique benefits of using the Nyström method through numerical comparisons with other numerical and analytical methods. Covers a broad range of application examples that will point the way for future

research The Nystrom Method in Electromagnetics is ideal for graduate students senior undergraduates and researchers studying engineering electromagnetics computational methods and applied mathematics Practicing engineers and other industry professionals working in engineering electromagnetics and engineering mathematics will also find it to be incredibly helpful

Lectures on Computational Methods in Electromagnetics, 1981 [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

Special Issue Advances in Computational Methods in Electromagnetics Jin-Fa Lee, 1999 **Computational Electromagnetics** Carsten Carstensen, Stefan Funken, Wolfgang Hackbusch, Ronald W. Hoppe, Peter Monk, 2012-12-06 The dimmed outlines of phenomenal things all into one another unless we put on the merge focusing glass of theory and screw it up some times to one pitch of definition and sometimes to another so as to see down into different depths through the great millstone of the world James Clerk Maxwell 1831 1879 For a long time after the foundation of the modern theory of electromagnetism by James Clerk Maxwell in the 19th century the mathematical approach to electromagnetic field problems was for a long time dominated by the analytical investigation of Maxwell's equations The rapid development of computing facilities during the last century has then necessitated appropriate numerical methods and algorithmic tools for the simulation of electromagnetic phenomena During the last few decades a new research area Computational Electromagnetics has emerged comprising the mathematical analysis design implementation and application of numerical schemes to simulate all kinds of relevant electromagnetic processes This area is still rapidly evolving with a wide spectrum of challenging issues featuring among others such problems as the proper choice of spatial discretizations finite differences finite elements finite volumes boundary elements fast solvers for the discretized equations multilevel techniques domain decomposition methods multipole panel clustering and multiscale aspects in microelectronics and micromagnetics

Computational Methods for Electromagnetic Inverse Scattering Xudong Chen, 2018-07-18 A comprehensive and updated overview of the theory algorithms and applications of for electromagnetic inverse scattering problems Offers the recent and most important advances in inverse scattering grounded in fundamental theory algorithms and practical engineering applications Covers the latest most relevant inverse scattering techniques like signal subspace methods time reversal linear sampling qualitative methods compressive sensing and noniterative methods Emphasizes theory mathematical derivation and physical insights of various inverse scattering problems Written by a leading expert in the field

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