



ELECTROMAGNETIC MODELING BY FINITE ELEMENT METHODS

JOÃO PEDRO A. BASTOS
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Electromagnetic Modeling By Finite Element Methods Electrical And Computer Engineering

Dragan Poljak



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Multigrid Finite Element Methods for Electromagnetic Field Modeling Yu Zhu, Andreas C. Cangellaris, 2006-02-03 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

Modeling and Application of Electromagnetic and Thermal Field in Electrical Engineering Zhiguang Cheng, Norio Takahashi, Behzad Forghani, 2019-12-03 Co authored by an international research group with a long standing cooperation this book focuses on engineering oriented electromagnetic and thermal field modeling and application It presents important contributions including advanced and efficient finite element analysis used in the solution of electromagnetic and thermal field problems for large and multi scale engineering applications involving application script development magnetic measurement of both magnetic materials and components under various even extreme conditions based on well established standard and non standard experimental systems and multi level validation based on both industrial test systems and extended TEAM P21 benchmarking platform Although these are challenging topics they are useful for readers from both academia and industry

EMI/EMC Computational Modeling Handbook Bruce R. Archambeault, Omar M. Ramahi, Colin Brench, 2013-04-17

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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
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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

The Finite Element Method for Electromagnetic Modeling Gérard Meunier,2010-01-05 The Finite Element Method
for Electromagnetic Modeling Written by specialists in the modeling of electromagnetism this book provides a comprehensive
review of the finite element method for low frequency applications Fundamentals of the method as well as new advances in
the field are described in detail Static magnetodynamic and fixed formulations are first covered before the discussion moves
on to different macroscopic behavior laws of materials and their implementation in a finite element context and to more
specific formulations the modeling of thin regions when finite elements become ill fitting the coupling of 2D and 3D
formulations with circuit equations taking into account the presence of eddy currents and the treatment of geometric
symmetries when the sources are not symmetric Coupled problems are then outlined before the book concludes with
coverage of different meshing methods in the context of electromagnetism and optimization techniques *Scientific and
Technical Aerospace Reports* ,1989-07 **Electromagnetic Modeling of High-speed High-frequency Interconnects**

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Salazar-Palma,1998 Ensure the accuracy of your results when applying the Finite Element Method FEM to electromagnetic
and antenna problems with this self contained reference It provides you with a solid understanding of the method describes
its key elements and numerical techniques and identifies various approaches to using the FEM in solving real world

microwave field problems **Advanced Modeling in Computational Electromagnetic Compatibility** Dragan Poljak, 2007-03-16 This book will enable readers to handle various EMC problems to develop their own EMC computational models in applications in research and industry and to better understand numerical methods developed and used by other researchers and engineers not only in EMC but in other areas of engineering **Symposium Record** ,2002

Computational Methods in Large Scale Simulation Khin Yong Lam, Heow Pueh Lee, 2005 Methods of multiscale modeling in mechanics W A Curtin Efficient and accurate boundary methods for computational optics Christian Hafner and J Smajic Finite element modeling of periodic structures Zheng Lou and Jian Ming Jin Factorization of potential and field distributions without utilizing the addition theorem Ali Reza Baghai Wadji and Erping Li Virtualization aware application framework for hierarchical multiscale simulations on a grid Aiichiro Nakano und weitere Molecular dynamics simulation and local quantities Tamio Ikeshoji Recent advances in modeling and simulation of high speed interconnects Michel Nakhla and Ram Achat Multiscale modeling of degradation and failure of interconnect lines driven by electromigration and stress gradients Robert Atkinson and Alberto Cuiti o Computer-aided Analysis and Design of Electromagnetic Devices S. Ratnajeevan H. Hoole, 1989 **IAENG Transactions on Engineering Technologies Volume I** Sio-Iong Ao, Alan H.S. Chan, Hideki Katagiri, Oscar Castillo, Li Xu, 2009-01-28 This volume contains twenty seven revised and extended research articles written by prominent researchers of the International MultiConference of Engineers and Computer Scientists IMECS 2008 The book offers the state of art of tremendous advances in engineering technologies and also serves as an excellent reference work for researchers and graduate students **Quick Finite Elements for Electromagnetic Waves** Giuseppe Pelosi, Roberto Coccioli, Stefano Selleri, 1998 Now you can quickly and more easily work out challenging microwave engineering and high frequency electromagnetic problems using the finite element method FEM with this practical book and software package Using clear concise text and dozens of real world application examples the book provides a detailed description of FEM implementation while the software provides the code and tools needed to solve the three major types of EM problems guided propagation scattering and radiation **Radio Science** ,2008 **Proceedings** ,2004 **Wiley Encyclopedia of Telecommunications, 5 Volume Set** John G. Proakis, 2003-01-06 Online encyclopedia dedicated to telecommunications for electrical engineers Topics Include Optical communications modulation and demodulation coding and decoding communication networks and antennas Regular updates **Optics Letters** ,1996

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