



# ELECTROMAGNETIC MODELING BY FINITE ELEMENT METHODS

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

**Yu Zhu, Andreas C. Cangellaris**



## **Electromagnetic Modeling By Finite Element Methods Electrical And Computer Engineering:**

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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, 2012-12-06 The application of computational electromagnetics to real world EMI EMC engineering is an emerging technology With the advancement in electronics EMI EMC issues have greatly increased in complexity As a result it is no longer possible to rely exclusively on traditional techniques and expect cost effective solutions The first edition of this book introduced computational electromagnetics to EMI EMC engineering This second edition continues the introduction of computational electromagnetics to EMI EMC engineering but also adds new modeling techniques namely the Partial Element Equivalent Circuit method and the Transmission Line Matrix method and updates to the science of EMI EMC modeling that have occurred since the first edition was published This book combines the essential elements of electromagnetic theory computational techniques and EMI EMC engineering as they apply to computational modeling for EMI EMC applications It is intended to provide an understanding for those interested in incorporating modeling techniques in their work A variety of

modeling techniques are needed for anyone interested in using computational modeling in the real world This book includes an introduction of all the popular modeling techniques such as the Finite Difference Time Domain method the Method of Moments the Finite Element Method the Partial Element Equivalent Circuit method and the Transmission Line Matrix method EMI EMC Computational Modeling Handbook Second Edition will serve many different levels of readers It will serve as a basic introduction to modeling as applied to EMI EMC problems for the engineer interested in getting started and it will help the person already using modeling as a tool to become more effective in using different modeling techniques It will also be useful for the engineer who is familiar with computational techniques and wishes to apply them to EMI EMC applications This book can also be used as a text to help students of electromagnetic theory and application better understand real world challenges facing engineers

**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

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 Scientific and Technical Aerospace Reports ,1989-07 **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 *Electromagnetic Modeling of High-speed High-frequency Interconnects* Jong-Gwan Yook,1996 **Iterative and Self-adaptive Finite-elements in Electromagnetic Modeling** Magdalena 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

*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 *Symposium Record* ,2002 Digest of Technical Papers ,2003 *Microwave Journal* ,2007

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