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Passive Macromodeling

Theory and Applications

Stefano Grivet-Talocia
Bjørn Gustavsen

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Passive Macromodeling Applications Microwave Engineering:

Circuit Oriented Electromagnetic Modeling Using the PEEC Techniques Albert Ruehli, Giulio Antonini, Lijun

Jiang, 2017-06-19 Bridges the gap between electromagnetics and circuits by addressing electrometric modeling EM using the Partial Element Equivalent Circuit PEEC method. This book provides intuitive solutions to electromagnetic problems by using the Partial Element Equivalent Circuit PEEC method. This book begins with an introduction to circuit analysis techniques laws and frequency and time domain analyses. The authors also treat Maxwell's equations, capacitance computations and inductance computations through the lens of the PEEC method. Next readers learn to build PEEC models in various forms equivalent circuit models, non-orthogonal PEEC models, skin effect models, PEEC models for dielectrics, incident and radiate field models and scattering PEEC models. The book concludes by considering issues like stability and passivity and includes five appendices some with formulas for partial elements. Leads readers to the solution of a multitude of practical problems in the areas of signal and power integrity and electromagnetic interference. Contains fundamentals, applications and examples of the PEEC method. Includes detailed mathematical derivations.

Circuit Oriented Electromagnetic Modeling Using the PEEC Techniques is a reference for students, researchers and developers who work on the physical layer modeling of IC interconnects and Packaging PCBs and high speed links

Passive Macromodeling Stefano Grivet-Talocia, Bjorn

Gustavsen, 2015-12-07 Offers an overview of state of the art passive macromodeling techniques with an emphasis on black box approaches. This book offers coverage of developments in linear macromodeling with a focus on effective proven methods. After starting with a definition of the fundamental properties that must characterize models of physical systems the authors discuss several prominent passive macromodeling algorithms for lumped and distributed systems and compare them under accuracy, efficiency and robustness standpoints. The book includes chapters with standard background material such as linear time invariant circuits and systems, basic discretization of field equations, state space systems as well as appendices collecting basic facts from linear algebra, optimization, templates and signals and transforms. The text also covers more technical and advanced topics intended for the specialist which may be skipped at first reading. Provides coverage of black box passive macromodeling, an approach developed by the authors. Elaborates on main concepts and results in a mathematically precise way using easy to understand language. Illustrates macromodeling concepts through dedicated examples. Includes a comprehensive set of end of chapter problems and exercises. Passive Macromodeling Theory and Applications serves as a reference for senior or graduate level courses in electrical engineering programs and to engineers in the fields of numerical modeling, simulation, design and optimization of electrical and electronic systems. Stefano Grivet Talocia PhD is an Associate Professor of Circuit Theory at the Politecnico di Torino in Turin, Italy and President of IdemWorks. Dr. Grivet Talocia is author of over 150 technical papers published in international journals and conference proceedings. He invented several algorithms in the area of passive macromodeling, making them available through IdemWorks. Bjørn Gustavsen PhD is a Chief Research

Scientist in Energy Systems at SINTEF Energy Research in Trondheim Norway More than ten years ago Dr Gustavsen developed the original version of the vector fitting method with Prof Semlyen at the University of Toronto The vector fitting method is one of the most widespread approaches for model extraction Dr Gustavsen is also an IEEE fellow *Mathematical Optimization for Machine Learning* Konstantin Fackeldey,Aswin Kannan,Sebastian Pokutta,Kartikey Sharma,Daniel Walter,Andrea Walther,Martin Weiser,2025-05-06 Mathematical optimization and machine learning are closely related This proceedings volume of the Thematic Einstein Semester 2023 of the Berlin Mathematics Research Center MATH collects recent progress on their interplay in topics such as discrete optimization nonlinear programming optimal control first order methods multilevel optimization machine learning in optimization physics informed learning and fairness in machine learning

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high spectral efficiency fiber optic communication systems and networks enabled by the use of coherent detection and digital signal processing DSP The first of this book's 16 chapters is a detailed introduction Chapter 2 reviews the modulation formats while Chapter 3 focuses on detection and error correction technologies for coherent optical communication systems Chapters 4 and 5 are devoted to Nyquist WDM and orthogonal frequency division multiplexing OFDM In chapter 6 polarization and nonlinear impairments in coherent optical communication systems are discussed The fiber nonlinear effects in a non dispersion managed system are covered in chapter 7 Chapter 8 describes linear impairment equalization and Chapter 9 discusses various nonlinear mitigation techniques Signal synchronization is covered in Chapters 10 and 11 Chapter 12 describes the main constraints put on the DSP algorithms by the hardware structure Chapter 13 addresses the fundamental concepts and recent progress of photonic integration Optical performance monitoring and elastic optical network technology are the subjects of Chapters 14 and 15 Finally Chapter 16 discusses spatial division multiplexing and MIMO processing technology a potential solution to solve the capacity limit of single mode fibers Contains basic theories and up to date technology advancements in each chapter Describes how capacity approaching coding schemes based on low density parity check LDPC and spatially coupled LDPC codes can be constructed by combining iterative demodulation and decoding Demonstrates that fiber nonlinearities can be accurately described by some analytical models such as GN EGN model Presents impairment equalization and mitigation techniques Enabling Technologies for High Spectral efficiency Coherent Optical Communication Networks is a reference for researchers engineers and graduate students Peterson's Graduate Programs in Engineering and Applied Sciences, 1996 Peterson's Guides, Peterson's Guides

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,2004 **Dissertation Abstracts International**, 2007 Simulation-driven Design Optimization And Modeling For Microwave Engineering Qi-jun Zhang, 2013-03-14 Computer aided full wave electromagnetic EM analysis has been used in microwave engineering for the past decade Initially its main application area was design verification Today EM simulation driven optimization and design closure become increasingly important due to the complexity of microwave structures and

increasing demands for accuracy In many situations theoretical models of microwave structures can only be used to yield the initial designs that need to be further fine tuned to meet given performance requirements In addition EM based design is a must for a growing number of microwave devices such as ultra wideband UWB antennas dielectric resonator antennas and substrate integrated circuits For circuits like these no design ready theoretical models are available so design improvement can only be obtained through geometry adjustments based on repetitive time consuming simulations On the other hand various interactions between microwave devices and their environment such as feeding structures and housing must be taken into account and this is only possible through full wave EM analysis Electromagnetic simulations can be highly accurate but they tend to be computationally expensive Therefore practical design optimization methods have to be computationally efficient so that the number of CPU intensive high fidelity EM simulations is reduced as much as possible during the design process For the same reasons techniques for creating fast yet accurate models of microwave structures become crucially important In this edited book the authors strive to review the state of the art simulation driven microwave design optimization and modeling A group of international experts specialized in various aspects of microwave computer aided design summarize and review a wide range of the latest developments and real world applications Topics include conventional and surrogate based design optimization techniques methods exploiting adjoint sensitivity simulation based tuning space mapping and several modeling methodologies such as artificial neural networks and kriging Applications and case studies include microwave filters antennas substrate integrated structures and various active components and circuits The book also contains a few introductory chapters highlighting the fundamentals of optimization and modeling gradient based and derivative free algorithms metaheuristics and surrogate based optimization techniques as well as finite difference and finite element methods a **Microwave Journal** ,2006 *American Doctoral Dissertations* ,2002 **ASEE ...**

Profiles of Engineering & Engineering Technology Colleges ,1998 International Conference on Simulation of Semiconductor Processes and Devices ,2000 **ASEE 1995-1996 Profiles of Engineering & Engineering Technology Colleges** ,1997 **Proceedings of MELECON ...** ,1983 Melecon 1981 is a tribute paid by the Institute of Electrical and Electronics Engineers on the 150th anniversary of electrical engineering pref 1981 **IEEE Circuits & Devices** ,2001 Proceedings of the ... Midwest Symposium on Circuits and Systems ,2000 Microwave Engineering Peter A. Rizzi,1988 CAD/CAM Abstracts ,1989

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