
Ansoft Maxwell User Guide

User Guide for FAME(Fast Algorithm of Maxwell's Equations).

Digest

A Guide to the Wireless Engineering Body of Knowledge (WEBOK)

The Foundations of Signal Integrity

Conference Proceedings, 1991

1996 IEEE AFRICON, 4th AFRICON Conference in Africa, 25-27 September 1996, Tutorials on 24 September 1996

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Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives

Microwave Circuit Modeling Using Electromagnetic Field Simulation

Compact Models and Measurement Techniques for High-Speed Interconnects

Fundamentals of Electric Propulsion

Coplanar Waveguide Circuits, Components, and Systems

Proceedings, 2002 International Conference on Advanced Packaging and Systems

Circuit Analysis User's Guide

EQS for Windows User's Guide

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An Electric Vehicle Battery Charging System

Microwave Engineering

1988 IEEE MTT International Microwave Symposium Digest

Proceedings of the Technical Conference

IEEE Intermag, 1993

CD-ROMs in Print

Palmer Comp Svc-User Guide

Analysis and Design of Planar Microwave Components

Power Electronics, Machines and Drives (Pemd)

Microtransducer CAD

PESC '96

Micromechanics and MEMS

RF Design Guide

Machine Design

1997 IEEE 12th Applied Power Electronics Conference

Electronic Design

IEEE 2000 First International Symposium on Quality Electronic Design

Large Displacement Electrostatic Microactuators with Polysilicon Flexure Suspensions

Finite Element Method

The RF and Microwave Handbook

High-Speed Signaling

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MELENDEZ RYAN

User Guide for FAME(Fast Algorithm of Maxwell's Equations).

Springer Science & Business Media
Computer-aided-design (CAD) of semiconductor microtransducers is relatively new in contrast to their counterparts in the integrated circuit world. Integrated silicon microtransducers are realized using microfabrication techniques similar to those for standard integrated circuits (ICs). Unlike IC devices, however, microtransducers must interact with their environment, so their numerical simulation is considerably more complex. While the design of ICs aims at suppressing "parasitic" effects, microtransducers thrive on optimizing the

one or the other such effect. The challenging quest for physical models and simulation tools enabling microtransducer CAD is the topic of this book. The book is intended as a text for graduate students in Electrical Engineering and Physics and as a reference for CAD engineers in the microsystems industry.

Digest Institute of Electrical & Electronics Engineers(IEEE)

The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically. The modern microwave and RF engineer is expected to know customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented in the

A Guide to the Wireless Engineering Body

of Knowledge (WEBOK) John Wiley & Sons
Gain fast access to design information required for any RF communication project using high-frequency circuits and systems with this bestseller. It contains measurement methods, system calculations, statistical procedures, and actual circuit and measurement examples that help you shorten design cycles, improve quality, and reduce design risks. Augmented with 400 equations and 210 figures, the book is an ideal reference for product designers and consultants in the RF and wireless communications industry and an outstanding learning tool for classroom use.

The Foundations of Signal Integrity

John Wiley & Sons

Annotation This practical "how to" book is an ideal introduction to electromagnetic field-solvers. Where most books in this

area are strictly theoretical, this unique resource provides engineers with helpful advice on selecting the right tools for their RF (radio frequency) and high-speed digital circuit design work
Conference Proceedings, 1991 Wiley-IEEE Press

Micromechanics is a rich, diverse field that draws on many different disciplines and has potential applications in medicine, electronic interfaces to physical phenomena, military, industrial controls, consumer products, airplanes, microsattellites, and much more. Until now, papers written during the earlier stages of this field have been difficult to retrieve. The papers included in this volume have been thoughtfully arranged by topic, and are accompanied by section introductions written by renowned expert William Trimmer.

1996 IEEE AFRICON, 4th AFRICON Conference in Africa, 25-27 September 1996, Tutorials on 24 September 1996 Prentice Hall

These proceedings provide comprehensive coverage of the fundamental technology used in the control and conversion of electric power. The papers cover the entire electric power industry from supply basis to magnetic design, from manufacturability to regulation.

A Guide to the Wireless Engineering Body of Knowledge (WEBOK) John Wiley & Sons
Pozar's new edition of *Microwave Engineering* includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives Institute of Electrical & Electronics Engineers(IEEE)

Presents applied theory and advanced simulation techniques for electric machines and drives This book combines the knowledge of experts from both academia and the software industry to

present theories of multiphysics simulation by design for electrical machines, power electronics, and drives. The comprehensive design approach described within supports new applications required by technologies sustaining high drive efficiency. The highlighted framework considers the electric machine at the heart of the entire electric drive. The book also emphasizes the simulation by design concept—a concept that frames the entire highlighted design methodology, which is described and illustrated by various advanced simulation technologies.

Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives begins with the basics of electrical machine design and manufacturing tolerances. It also discusses fundamental aspects of the state of the art design process and includes examples from industrial practice. It explains FEM-based analysis techniques for electrical machine design—providing details on how it can be employed in ANSYS Maxwell software. In addition, the book covers advanced magnetic material modeling capabilities employed in numerical computation; thermal analysis; automated optimization for electric machines; and power electronics and drive systems. This valuable resource: Delivers the multiphysics know-how based on practical electric machine design methodologies Provides an extensive overview of electric machine design optimization and its integration with power electronics and drives Incorporates case studies from industrial practice and research and development projects
Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives is an incredibly helpful book for design engineers, application and system engineers, and technical professionals. It will also benefit graduate engineering students with a strong interest in electric machines and drives.

Microwave Circuit Modeling Using Electromagnetic Field Simulation John Wiley & Sons

The ultimate reference on wireless technology now updated and revised Fully updated to incorporate the latest developments and standards in the field, *A Guide to the Wireless Engineering Body of Knowledge, Second Edition* provides industry professionals with a one-stop reference to everything they need to design, implement, operate, secure, and troubleshoot wireless networks. Written by a group of international experts, the book offers an unmatched breadth of coverage and a unique focus on real-world engineering issues. The authors draw upon

extensive experience in all areas of the technology to explore topics with proven practical applications, highlighting emerging areas such as Long Term Evolution (LTE) in wireless networks. The new edition is thoroughly revised for clarity, reviews wireless engineering fundamentals, and features numerous references for further study. Based on the areas of expertise covered in the IEEE Wireless Communication Engineering Technologies (WCET) exam, this book explains: Wireless access technologies, including the latest in mobile cellular technology Core network and service architecture, including important protocols and solutions Network management and security, from operations process models to key security issues Radio engineering and antennas, with specifics on radio frequency propagation and wireless link design Facilities infrastructure, from lightning protection to surveillance systems With this trusted reference at their side, wireless practitioners will get up to speed on advances and best practices in the field and acquire the common technical language and tools needed for working in different parts of the world.

Compact Models and Measurement Techniques for High-Speed Interconnects John Wiley & Sons

Compact Models and Measurement Techniques for High-Speed Interconnects provides detailed analysis of issues related to high-speed interconnects from the perspective of modeling approaches and measurement techniques. Particular focus is laid on the unified approach (variational method combined with the transverse transmission line technique) to develop efficient compact models for planar interconnects. This book will give a qualitative summary of the various reported modeling techniques and approaches and will help researchers and graduate students with deeper insights into interconnect models in particular and interconnect in general. Time domain and frequency domain measurement techniques and simulation methodology are also explained in this book.

Fundamentals of Electric Propulsion Institute of Electrical & Electronics Engineers(IEEE)

The first book to focus on the electromagnetic basis of signal integrity
The Foundations of Signal Integrity is the first of its kind—a reference that examines the physical foundation of system integrity based on electromagnetic theory derived from Maxwell's Equations. Drawing upon the cutting-edge research of Professor Paul Huray's team of industrial engineers and graduate students, it develops the

physical theory of wave propagation using methods of solid state and high-energy physics, mathematics, chemistry, and electrical engineering before addressing its application to modern high-speed systems. Coverage includes: All the necessary electromagnetic theory needed for a complete understanding of signal integrity Techniques for obtaining analytic solutions to Maxwell's Equations for ideal materials and boundary conditions Plane electromagnetic waves Plane waves in compound media Transmission lines and waveguides Ideal models vs. real-world systems Complex permittivity of propagating media Surface roughness Advanced signal integrity Signal integrity simulations Problem sets for each chapter With its thorough coverage of this relatively new discipline, the book serves as an ideal textbook for senior undergraduate and junior graduate students, as well as a resource for practicing engineers in this burgeoning field. At the end of each section, it typically stimulates the reader with open-ended questions that might lead to future theses or dissertation research.

Coplanar Waveguide Circuits, Components, and Systems Artech House The ultimate reference book for professionals in the wireless industry The information presented in this book reflects the evolution of wireless technologies, their impact on the profession, and the industry's commonly accepted best practices. Organized into seven main areas of expertise, A Guide to the Wireless Engineering Body of Knowledge (WEBOK) enhances readers' understanding of: Wireless access technologies Network and service architecture Network management and security Radio frequency engineering, propagation, and antennas Facilities infrastructure Agreements, standards, policies, and regulations Wireless engineering fundamentals Complemented with a large number of references and suggestions for further reading, the WEBOK is an indispensable resource for anyone working in the wireless industry. Proceedings, 2002 International Conference on Advanced Packaging and Systems Artech House

Up-to-date coverage of the analysis and applications of coplanar waveguides to microwave circuits and antennas The unique feature of coplanar waveguides, as opposed to more conventional waveguides, is their uniplanar construction, in which all of the conductors are aligned on the same side of the substrate. This feature simplifies manufacturing and allows faster and less expensive characterization using on-wafer

techniques. Coplanar Waveguide Circuits, Components, and Systems is an engineer's complete resource, collecting all of the available data on the subject. Rainee Simons thoroughly discusses propagation parameters for conventional coplanar waveguides and includes valuable details such as the derivation of the fundamental equations, physical explanations, and numerical examples. Coverage also includes: Discontinuities and circuit elements Transitions to other transmission media Directional couplers, hybrids, and magic T Microelectromechanical systems based switches and phase shifters Tunable devices using ferroelectric materials Photonic bandgap structures Printed circuit antennas

Circuit Analysis User's Guide Springer Science & Business Media

Throughout most of the twentieth century, electric propulsion was considered the technology of the future. Now, the future has arrived. This important new book explains the fundamentals of electric propulsion for spacecraft and describes in detail the physics and characteristics of the two major electric thrusters in use today, ion and Hall thrusters. The authors provide an introduction to plasma physics in order to allow readers to understand the models and derivations used in determining electric thruster performance. They then go on to present detailed explanations of: Thruster principles Ion thruster plasma generators and accelerator grids Hollow cathodes Hall thrusters Ion and Hall thruster plumes Flight ion and Hall thrusters Based largely on research and development performed at the Jet Propulsion Laboratory (JPL) and complemented with scores of tables, figures, homework problems, and references, Fundamentals of Electric Propulsion: Ion and Hall Thrusters is an indispensable textbook for advanced undergraduate and graduate students who are preparing to enter the aerospace industry. It also serves as an equally valuable resource for professional engineers already at work in the field. EQS for Windows User's Guide BoD - Books on Demand

The book entitled Finite Element Method: Simulation, Numerical Analysis, and Solution Techniques aims to present results of the applicative research performed using FEM in various engineering fields by researchers affiliated to well-known universities. The book has a profound interdisciplinary character and is mainly addressed to researchers, PhD students, graduate and undergraduate students, teachers, engineers, as well as all other readers interested in the

engineering applications of FEM. I am confident that readers will find information and challenging topics of high academic and scientific level, which will encourage them to enhance their knowledge in this engineering domain having a continuous expansion. The applications presented in this book cover a broad spectrum of finite element applications starting from mechanical, electrical, or energy production and finishing with the successful simulation of severe meteorological phenomena.

Proceedings John Wiley & Sons

New System-Level Techniques for Optimizing Signal/Power Integrity in High-Speed Interfaces--from Pioneering Innovators at Rambus, Stanford, Berkeley, and MIT As data communication rates accelerate well into the multi-gigahertz range, ensuring signal integrity both on- and off-chip has become crucial. Signal integrity can no longer be addressed solely through improvements in package or board-level design: Diverse engineering teams must work together closely from the earliest design stages to identify the best system-level solutions. In High-Speed Signaling, several of the field's most respected practitioners and researchers introduce cutting-edge modeling, simulation, and optimization techniques for meeting this challenge. Edited by pioneering experts Drs. Dan Oh and Chuck Yuan, these contributors explain why noise and jitter are no longer separable, demonstrate how to model their increasingly complex interactions, and thoroughly introduce a new simulation methodology for predicting link-level performance with unprecedented accuracy. The authors address signal integrity from architecture through high-volume production, thoroughly discussing design, implementation, and verification. Coverage includes New advances in passive-channel modeling, power-supply noise and jitter modeling, and system margin prediction Methodologies for balancing system voltage and timing budgets to improve system robustness in high-volume manufacturing Practical, stable formulae for converting key network parameters Improved solutions for difficult problems in the broadband modeling of interconnects Equalization techniques for optimizing channel performance Important new insights into the relationships between jitter and clocking topologies New on-chip measurement techniques for in-situ link performance testing Trends and future directions in signal integrity engineering High-Speed Signaling thoroughly introduces new techniques pioneered at

Rambus and other leading high-tech companies and universities: approaches that have never before been presented with this much practical detail. It will be invaluable to everyone concerned with

signal integrity, including signal and power integrity engineers, high-speed I/O circuit designers, and system-level board design engineers.
EQS for Windows user's guide : [version 5]
John Wiley & Sons

Colleague User Manual IEEE Computer Society Press
An Electric Vehicle Battery Charging System CRC Press
Microwave Engineering

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