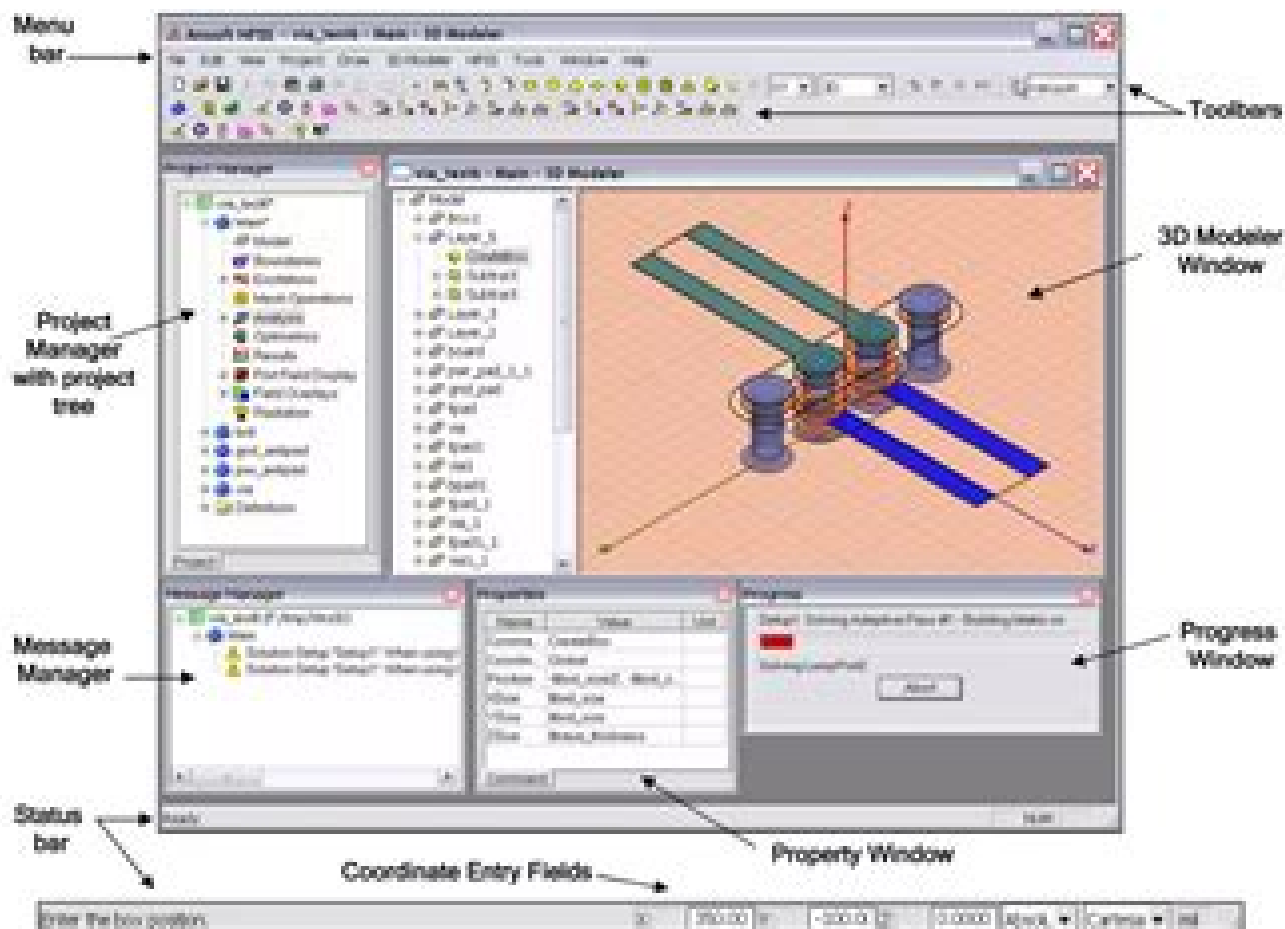


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Modeling and Simulation in Engineering, Economics, and Management María Ángeles Fernández-Izquierdo, María Jesús Muñoz-Torres, Raúl León, 2013-06-01 This book contains the refereed proceedings of the International Conference on Modeling and Simulation in Engineering Economics and Management MS 2013 held in Castell n de la Plana Spain in June 2013 The event was co organized by the AMSE Association and the SoGReS Research Group of the Jaume I University This edition of the conference paid special attention to modeling and simulation in diverse fields of business management The 28 full papers in this book were carefully reviewed and selected from 65 submissions They are organized in topical sections on modeling and simulation in CSR and sustainable development modeling and simulation in finance and accounting modeling and simulation in management and marketing modeling and simulation in economics and politics knowledge based expert and decision support systems and modeling and simulation in engineering *Practical Guide to RF-MEMS* Jacopo Iannacci, 2013-08-12 Closes the gap between hardcore theoretical and purely experimental RF MEMS books The book covers from a practical viewpoint the most critical steps that have to be taken in order to develop novel RF MEMS device concepts Prototypical RF MEMS devices both including lumped components and complex networks are presented at the beginning of the book as reference examples and these are then discussed from different perspectives with regard to design simulation packaging testing and post fabrication modeling Theoretical concepts are introduced when necessary to complement the practical hints given for all RF MEMS development stages Provides researchers and engineers with invaluable practical hints on how to develop novel RF MEMS device concepts Covers all critical steps dealing with design simulation optimization characterization and fabrication of MEMS for radio frequency applications Addresses frequently disregarded issues explicitly treating the hard to predict interplay between the three dimensional device structure and its electromagnetic functionality Bridges theory and experiment fundamental concepts are introduced with the application in mind and simulation results are validated against experimental results Appeals to the practice oriented R D reader design and simulation examples are based on widely known software packages such as ANSYS and the hardware description language Verilog Physics of Semiconductor Devices V. K. Jain, Abhishek Verma, 2013-11-27 The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community As a result the latest findings research and discoveries can be quickly disseminated This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community This workshop s technical sessions include various current and significant topics for applications and scientific developments including Optoelectronics VLSI ULSI Technology Photovoltaics MEMS Sensors Device Modeling and Simulation High Frequency Power Devices Nanotechnology and Emerging Areas Organic Electronics Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest

research works and also equally supporting this mega event by joining the various organizing committees

Exponential Data Fitting and Its Applications Victor Pereyra, Godela Scherer, 2010 Real and complex exponential data fitting is an important activity in many different areas of science and engineering ranging from Nuclear Magnetic Resonance Spectroscopy and Lattice Quantum Chromodynamics to Electrical and Chemical Engineering Vision a New Developments and Applications in Sensing Technology Subhas Chandra Mukhopadhyay, Aimé Lay-Ekuakille, Anton Fuchs, 2011-01-22 This book has focussed on different aspects of smart sensors and sensing technology i.e. intelligent measurement information processing adaptability recalibration data fusion validation high reliability and integration of novel and high performance sensors in the areas of magnetic ultrasonic vision and image sensing wireless sensors and network microfluidic tactile gyro flow surface acoustic wave humidity and ultra wide band While future interest in this field is ensured by the constant supply of emerging modalities techniques and engineering solutions as well as an increasing need from aging structures many of the basic concepts and strategies have already matured and now offer opportunities to build upon The book has primarily been focussed for postgraduate and research students working on different aspects of design and developments of smart sensors and sensing technology

Co-simulations of Microwave Circuits and High-Frequency Electromagnetic Fields Mei Song Tong, Xiao Yu Li, 2024-07-03 This book aims to provide many advanced application topics for microwave circuits and high frequency electromagnetic EM fields by using advanced design system ADS and high frequency structure simulator HFSS as simulation platforms In particular it contains the latest multidisciplinary co simulation guidance on the design of relevant components and devices Currently the circuit field design and performance analysis and optimization strongly rely on various kinds of robust electronic design automation EDA software RF microwave engineers must grasp two or more types of related simulation design software ADS by Keysight and HFSS by Ansys are the representative for circuit simulations and for field and structural simulations of microwave devices respectively At present these two types of software are widely used in enterprises universities and research institutions The main purpose of this book is to enable readers who are interested in microwave engineering and applied electromagnetics to master the applications of these two tools It also helps readers expand their knowledge boundaries behind those types of software and deepen their understanding of developing interdisciplinary technologies by co simulations The book is divided into three parts The first part introduces the two latest versions of ADS and HFSS and helps readers better understand the basic principles and latest functions better It also advises how to choose appropriate simulation tools for different problems The second part mainly describes co simulations for high frequency EM fields microwave circuits antenna designs EM compatibility EMC and thermal and structural analyses It provides guides and advices on performing co simulations by ADS and HFSS incorporated with other types of software respectively The last part narrates the automation interfaces and script programming methods for co simulations It primarily deals with the Advanced Extension Language AEL Python Data Link PDL and MATLAB interface in ADS For HFSS it

discusses VBScript IronPython scripting and Application Programming Interface APIs based on MATLAB Each topic contains practical examples to help readers understand so that they can gain a solid knowledge and skills regarding automated interfaces and scripting methods based on these kinds of software Concisely written in combination with practical examples this book is very suitable as a textbook in introductory courses on microwave circuit and EM simulations and also as a supplementary textbook in many courses on electronics microwave engineering communication engineering and related fields As well it can serve as a reference book for microwave engineers and researchers

Advances in Ubiquitous Networking 2 Rachid El-Azouzi, Daniel Sadoc Menasche, Essaïd Sabir, Francesco De Pellegrini, Mustapha Benjillali, 2016-11-03 This volume offers the proceedings of the 2nd UNet conference held in Casablanca May 30 June 1 2016 It presents new trends and findings in hot topics related to ubiquitous computing networking covered in three tracks and three special sessions Main Track 1 Context Awareness and Autonomy Paradigms Track Main Track 2 Mobile Edge Networking and Virtualization Track Main Track 3 Enablers Challenges and Applications Special Session 1 Smart Cities and Urban Informatics for Sustainable Development Special Session 2 Unmanned Aerial Vehicles From Theory to Applications Special Session 3 From Data to Knowledge Big Data applications and solutions *Physical Modeling, Simulation and Measurements of Packaging Structures for Compact Electronic Systems* Enrique Diaz-Alvarez, 2000 *Antenna Architectures for Future Wireless Devices* Shibani Kishen Koul, Karthikeya G. S., 2022-01-03 This book presents the design requirements of antenna integration for modern commercial devices such as smartphones dongles and access points Practical use case scenarios of smartphone and the design process of the antenna system for the same are highlighted The feasibility of scaling up sub 6GHz to mmWave antennas is also discussed in detail followed by a plethora of design examples which could be panel mounted to modern day commercial smartphones The unique requirement of gain switchability is introduced with feasible practical antenna designs High efficiency antennas for 5G base stations is introduced along with a design example on planar all metallic antenna Beam switchability requirement for base station is illustrated with a couple of compact antenna system examples Variety of feeding techniques for mmWave antennas is elaborated in this book Finally low cost antenna designs for future wireless devices are illustrated

Compact Models and Measurement Techniques for High-Speed Interconnects Rohit Sharma, Tapas Chakravarty, 2012-02-17 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

Manual of

Heart Failure Mark Anderson, Donald Heistad, Richard E Kerber, 2014-05-30 Comprehensive guide to heart failure for clinicians Includes chapter in cardiopulmonary exercise testing Internationally recognised US author team **Innovation and Research - A Driving Force for Socio-Econo-Technological Development** Marcelo Zambrano Vizueté, Miguel Botto-Tobar, Angela Diaz Cadena, Benjamin Durakovic, 2022-08-01 This book presents the proceedings of the 2nd International Congress on Innovation and Research A Driving Force for Socio Econo Technological Development CI3 2021 CI3 was held on September 1 3 2021 It was organized by the Instituto Tecnol gico Superior Rumi ahui and GDEON in co organization with Higher Institutes Bolivariano de Tecnolog a Central T cnico Esp ritu Santo Jos Chiriboga Grijalva ISMAC Polic a Nacional del Ecuador Vida Nueva and sponsored by the Universidad Nacional Mayor de San Marcos Peru Universidade Federal de Goi s Brazil and City University of New York United States CI3 aims to disseminate the research project results that are being carried out in different Higher Education Institutions research centers and the business sector *Director's Report* National Institutes of Health (U.S.). Division of Computer Research and Technology, 1992 **Scientific Computing in Electrical Engineering** Angelo Marcello Anile, Giuseppe Alì, G. Mascali, 2007-01-10 This book is a collection of papers presented at the last Scientific Computing in Electrical Engineering SCEE Conference held in Sicily in 2004 The series of SCEE conferences aims at addressing mathematical problems which have a relevancy to industry The areas covered at SCEE 2004 were Electromagnetism Circuit Simulation Coupled Problems and General mathematical and computational methods Advances in Ubiquitous Networking Essaïd Sabir, Hicham Medromi, Mohamed Sadik, 2016-02-02 This volume publishes new trends and findings in hot topics related to ubiquitous computing networking It is the outcome of UNet a international scientific event that took place on September 08 10 2015 in the fascinating city of Casablanca Morocco UNet 15 is technically sponsored by IEEE Morocco Section and IEEE COMSOC Morocco Chapter **A Modern Guide to Food Economics** Roosen, Jutta, Hobbs, Jill E., 2022-03-17 This Modern Guide provides detailed theoretical and empirical insights into key areas of research in food economics It takes a forward looking perspective on how different actors in the food system shape the sustainability of food production distribution and consumption as well as on major challenges to efficient and inclusive food systems **Advances in Energy Science and Equipment Engineering II Volume 2** Shiquan Zhou, Aragona Patty, Shiming Chen, 2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 was held on November 12 14 2016 in Guangzhou China ICEESE 2016 brought together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas This second volume of the two volume set of

proceedings covers the field of Structural and Materials Sciences and Computer Simulation Computer and Electrical Engineering *EM Modeling of Antennas and RF Components for Wireless Communication Systems* Frank Gustrau,Dirk Manteuffel,2006-08-02 This book focuses on practical computational electrodynamics guiding the reader step by step through the modeling process from the initial what question must the model answer through the setting up of a computer model to post processing validation and optimization The book offers a realistic view of the capabilities and limits of current 3 D field simulators and how to apply this knowledge efficiently to EM analysis and design of RF applications in modern communication systems *ANALYSIS OF E-SHAPED SUBSTRATE INTEGRATED WAVEGUIDE ANTENNA* Prakash Yelaki,

Computational Electromagnetics for RF and Microwave Engineering David B. Davidson,2005-02-24 The numerical approximation of Maxwell s equations Computational Electromagnetics CEM has emerged as a crucial enabling technology for radio frequency microwave and wireless engineering The three most popular full wave methods the Finite Difference Time Domain Method the Method of Moments and the Finite Element Method are introduced in this book by way of one or two dimensional problems Commercial or public domain codes implementing these methods are then applied to complex real world engineering problems and a careful analysis of the reliability of the results obtained is performed along with a discussion of the many pitfalls which can result in inaccurate and misleading solutions The book will empower readers to become discerning users of CEM software with an understanding of the underlying methods and confidence in the results obtained It also introduces readers to the art of code development Aimed at senior undergraduate graduate students taking CEM courses and practising engineers in the industry

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