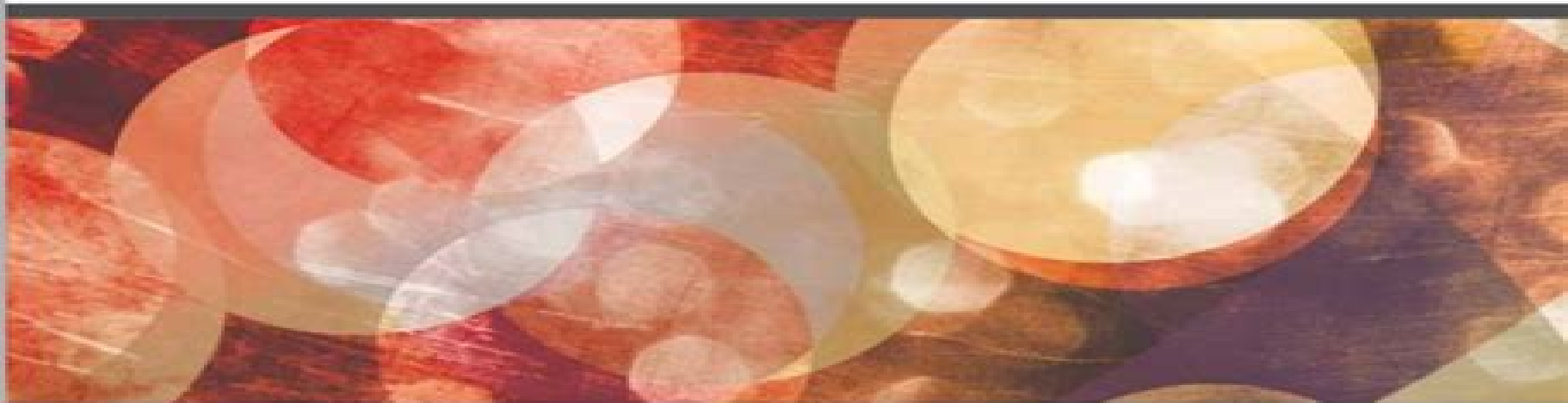


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Bálint Németh



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Ultra-Wideband Radio Technologies for Communications, Localization and Sensor Applications Reiner Thomä, Reinhard Knöchel, Juergen Sachs, Ingolf Willms, Thomas Zwick, 2013-03-13 Ultra Wideband Radio UWB earmarks a new radio access philosophy and exploits several GHz of bandwidth It promises high data rate communication over short distances as well as innovative radar sensing and localization applications with unprecedented resolution Fields of application may be found among others in industry civil engineering surveillance and exploration for security and safety measures and even for medicine The book considers the basics and algorithms as well as hardware and application issues in the field of UWB radio technology for communications localization and sensing based on the outcome of DFG s priority funding program Ultra Wideband Radio Technologies for Communications Localization and Sensor Applications UKoLoS *5th Kuala Lumpur International Conference on Biomedical Engineering 2011* Hua-Nong Ting, 2011-06-17 The Biomed 2011 brought together academicians and practitioners in engineering and medicine in this ever progressing field This volume presents the proceedings of this international conference which was hold in conjunction with the 8th Asian Pacific Conference on Medical and Biological Engineering APCMBE 2011 on the 20th to the 23rd of June 2011 at Berjaya Times Square Hotel Kuala Lumpur The topics covered in the conference proceedings include Artificial organs bioengineering education bionanotechnology biosignal processing bioinformatics biomaterials biomechanics biomedical imaging biomedical instrumentation BioMEMS clinical engineering prosthetics **Handbook of Research on Advanced Trends in Microwave and Communication Engineering** El Oualkadi, Ahmed, Zbitou, Jamal, 2016-08-25 Wireless communications have become invaluable in the modern world The market is going through a revolutionary transformation as new technologies and standards endeavor to keep up with demand for integrated and low cost mobile and wireless devices Due to their ubiquity there is also a need for a simplification of the design of wireless systems and networks The Handbook of Research on Advanced Trends in Microwave and Communication Engineering showcases the current trends and approaches in the design and analysis of reconfigurable microwave devices antennas for wireless applications and wireless communication technologies Outlining both theoretical and experimental approaches this publication brings to light the unique design issues of this emerging research making it an ideal reference source for engineers researchers graduate students and IT professionals **Microstrip Antennas** Sudipta Chattopadhyay, 2017-11-15 The progress in modern tiny multifunctional wireless devices has dramatically increased the demand for microstrip antennas in recent years Furthermore in the last few years such microstrip antennas found numerous applications in both the military and the commercial sectors Therefore microstrip patch antenna has become a major focus to the researchers in the field of antenna engineering In this book some recent advances in microstrip antennas are presented This book contains mainly three sections In the first section some new approaches to modern analytical techniques rather than the conventional cavity model transmission line model or spectral domain analysis have been discussed In the second

section of the book a light has been showered on some new techniques for bandwidth enhancement of microstrip radiators In the last section of the book the recent trends in microstrip antenna research have been showcased Some newfangled application oriented approach to this field is vividly discussed The books main objective is to facilitate the microstrip antenna researchers for exploring the subject in more vibrant manner and also to revolutionize wireless communications A sufficient number of topics have been covered some for the first time in a research handbook I hope that the book will surely be beneficial for scientists practicing engineers and researchers working in the field of microstrip antennas **Next**

Generation of Internet of Things Raghvendra Kumar,Prasant Kumar Pattnaik,João Manuel R. S. Tavares,2022-09-26 This book includes selected papers from the International Conference on Next Generation of Internet of Things ICNGIoT 2022 organized by Department of Computer Science and Engineering School of Engineering GIET University Gunupur Odisha India during February 3 4 2022 The book covers topics such as IoT network design and architecture IoT network virtualization IoT sensors privacy and security for IoT SMART environment social networks data science and data analytics cognitive intelligence and augmented intelligence and case studies and applications Proceedings of the 21st International Symposium on High Voltage Engineering Bálint Németh,2019-11-27 High voltage engineering is extremely important for the reliable design safe manufacture and operation of electric devices equipment and electric power systems The 21st International Symposium on High Voltage Engineering organized by the 90 years old Budapest School of High Voltage Engineering provides an excellent forum to present results advances and discussions among engineers researchers and scientists and share ideas knowledge and expertise on high voltage engineering The proceedings of the conference presents the state of the art technology of the field The content is simultaneously aiming to help practicing engineers to be able to implement based on the papers and researchers to link and further develop ideas *Proceedings of the National Conference on Emerging Trends in Vacuum Electronic Devices and Applications* S. K. Ghosh,Anirban Bera,Ayan Kumar Bandyopadhyay,2025-04-30 This book presents peer reviewed articles from the Conference on Vacuum Electronic Devices Applications VEDA2024 held at Pilani in India Like its previous editions it focusses on new ideas and the latest developments in research and industry on topics like technologies for vacuum electron devices VEDs or Systems and Subsystems employing VEDs RF HPM and THz Components Devices Systems RF MW mm wave Antennas and EM Simulations Materials power systems and components for VEDs High emission density cathodes for VEDs Applications of VEDs Future trends competing technologies It brings together scientists industrialists academicians and research scholars to exchange ideas and present latest developments in the field **Solving Computationally Expensive Engineering Problems** Slawomir Koziel,Leifur Leifsson,Xin-She Yang,2014-10-01 Computational complexity is a serious bottleneck for the design process in virtually any engineering area While migration from prototyping and experimental based design validation to verification using computer simulation models is inevitable and has a number of advantages high computational costs of accurate high fidelity

simulations can be a major issue that slows down the development of computer aided design methodologies particularly those exploiting automated design improvement procedures e g numerical optimization The continuous increase of available computational resources does not always translate into shortening of the design cycle because of the growing demand for higher accuracy and necessity to simulate larger and more complex systems Accurate simulation of a single design of a given system may be as long as several hours days or even weeks which often makes design automation using conventional methods impractical or even prohibitive Additional problems include numerical noise often present in the simulation data possible presence of multiple locally optimum designs as well as multiple conflicting objectives In this edited book various techniques that can alleviate solving computationally expensive engineering design problems are presented One of the most promising approaches is the use of fast replacement models so called surrogates that reliably represent the expensive simulation based model of the system device of interest but they are much cheaper and analytically tractable Here a group of international experts summarize recent developments in the area and demonstrate applications in various disciplines of engineering and science The main purpose of the work is to provide the basic concepts and formulations of the surrogate based modeling and optimization paradigm as well as discuss relevant modeling techniques optimization algorithms and design procedures Therefore this book should be useful to researchers and engineers from any discipline where computationally heavy simulations are used on daily basis in the design process

Electron Gun for Gyrotrons Udaybir Singh,A. K. Sinha,2022-08-22 This book highlights the emission transmission and launching of an electron beam It presents an overview and recent advances in order to enhance knowledge in the field of gyrotron in general and electron gun in particular The book is presented in seven chapters starting with the introduction and ending with future possible directions in the field of electron beams and gyrotrons

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.

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