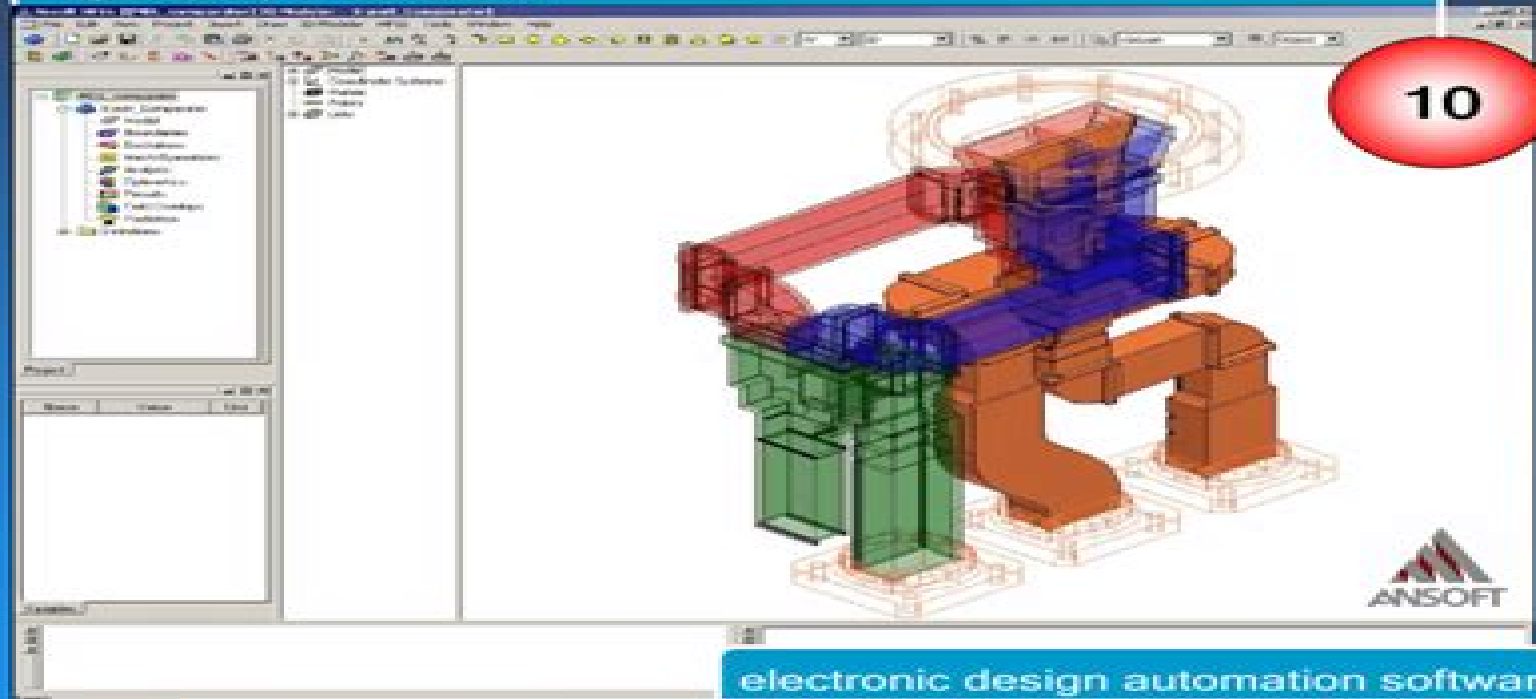


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The RF and Microwave Handbook Mike Golio, 2000-12-20 The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically The modern microwave and RF engineer is expected to know customer expectations market trends manufacturing technologies and factory models to a degree that is unprecedented in the 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

Antenna Design by Simulation-Driven Optimization Slawomir Koziel, Stanislav Ogurtsov, 2014-02-12 This Brief reviews a number of techniques exploiting the surrogate based optimization concept and variable fidelity EM simulations for efficient optimization of antenna structures The introduction of each method is illustrated with examples of antenna design The authors demonstrate the ways in which practitioners can obtain an optimized antenna design at the computational cost corresponding to a few high fidelity EM simulations of the antenna structure There is also a discussion of the selection of antenna model fidelity and its influence on performance of the surrogate based design process This volume is suitable for electrical engineers in academia as well as industry antenna designers and engineers dealing with computationally expensive design problems *Computational Optimization, Methods and Algorithms* Slawomir Koziel, Xin-She Yang, 2011-06-17 Computational optimization is an important paradigm with a wide range of applications In virtually all branches of engineering and industry we almost always try to optimize something whether to minimize the cost and energy consumption or to maximize profits outputs performance and efficiency In many cases this search for optimality is challenging either because of the high computational cost of evaluating objectives and constraints or because of the nonlinearity multimodality discontinuity and uncertainty of the problem functions in the real world systems Another complication is that most problems are often NP hard that is the solution time for finding the optimum increases exponentially with the problem size The development of efficient algorithms and specialized techniques that address these difficulties is of primary importance for contemporary engineering science and industry This book consists of 12 self contained chapters contributed from worldwide experts who are working in these exciting areas The book strives to review and discuss the latest developments concerning

optimization and modelling with a focus on methods and algorithms for computational optimization It also covers well chosen real world applications in science engineering and industry Main topics include derivative free optimization multi objective evolutionary algorithms surrogate based methods maximum simulated likelihood estimation support vector machines and metaheuristic algorithms Application case studies include aerodynamic shape optimization microwave engineering black box optimization classification economics inventory optimization and structural optimization This graduate level book can serve as an excellent reference for lecturers researchers and students in computational science engineering and industry

Computational Optimization and Applications in Engineering and Industry Xin-She Yang, Slawomir

Koziel, 2011-06-19 Contemporary design in engineering and industry relies heavily on computer simulation and efficient algorithms to reduce the cost and to maximize the performance and sustainability as well as profits and energy efficiency Solving an optimization problem correctly and efficiently requires not only the right choice of optimization algorithms and simulation methods but also the proper implementation and insight into the problem of interest This book consists of ten self contained detailed case studies of real world optimization problems selected from a wide range of applications and contributed from worldwide experts who are working in these exciting areas Optimization topics and applications include gas and water supply networks oil field production optimization microwave engineering aerodynamic shape design environmental emergence modelling structural engineering waveform design for radar and communication systems parameter estimation in laser experiment and measurement engineering materials and network scheduling These case studies have been solved using a wide range of optimization techniques including particle swarm optimization genetic algorithms artificial bee colony harmony search adaptive error control derivative free pattern search surrogate based optimization variable fidelity modelling as well as various other methods and approaches This book is a practical guide to help graduates and researchers to carry out optimization for real world applications More advanced readers will also find it a helpful reference and aide memoire

RFIC and MMIC Design and Technology I.D. Robertson, S. Lucyszyn, Institution of Electrical Engineers, 2001-11-30

This book gives an in depth account of GaAs InP and SiGe technologies and describes all the key techniques for the design of amplifiers ranging from filters and data converters to image oscillators mixers switches variable attenuators phase shifters integrated antennas and complete monolithic transceivers

Innovation and Research - A Driving Force for Socio-Econo-Technological Development Marcelo Zambrano Vizuete, 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

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

Advanced Millimeter-wave Technologies Duixian Liu, Ulrich Pfeiffer, Janusz Grzyb, Brian Gaucher, 2009-03-03 This book explains one of the hottest topics in wireless and electronic devices community namely the wireless communication at mmWave frequencies especially at the 60 GHz ISM band It provides the reader with knowledge and techniques for mmWave antenna design evaluation antenna and chip packaging Addresses practical engineering issues such as RF material evaluation and selection antenna and packaging requirements manufacturing tolerances antenna and system interconnections and antenna One of the first books to discuss the emerging research and application areas particularly chip packages with integrated antennas wafer scale mmWave phased arrays and imaging Contains a good number of case studies to aid understanding Provides the antenna and packaging technologies for the latest and emerging applications with the emphases on antenna integrations for practical applications such as wireless USB wireless video phase array automobile collision avoidance radar and imaging

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

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