



FRONTIERS IN **Antennas**

Next Generation Design & Engineering

Frank B. Gross

Frontiers In Antennas Next Generation Design Engineering

Frank Gross



Frontiers In Antennas Next Generation Design Engineering:

Frontiers in Antennas: Next Generation Design & Engineering Frank Gross, 2011-01-14 The state of the art in antenna design and engineering Edited by one of the world's foremost authorities on smart antennas and featuring contributions from global experts *Frontiers in Antennas* discusses the latest advances in antenna design and engineering This pioneering guide deals primarily with frontier antenna designs and frontier numerical methods Many of the concepts presented have emerged within the last few years and are still in a rapid state of development Each chapter provides in depth details on a unique and modern antenna technology *Frontiers in Antennas* covers Ultra wideband antenna arrays using fractal polyfractal and aperiodic geometries Smart antennas using evolutionary signal processing methods The latest developments in Vivaldi antenna arrays Effective media models applied to artificial magnetic conductors and high impedance surfaces Novel developments in metamaterial antennas Biological antenna design methods using genetic algorithms Contact and parasitic methods applied to reconfigurable antennas Antennas in medicine ingestible capsule antennas using conformal meandered methods Leaky wave antennas Plasma antennas which can electronically appear and disappear Numerical methods in antenna modeling using time frequency and conformal domain decomposition methods

Frontiers in Antennas: Next Generation Design & Engineering Frank Gross, 2010-12-22 The state of the art in antenna design and engineering Edited by one of the world's foremost authorities on smart antennas and featuring contributions from global experts *Frontiers in Antennas* discusses the latest advances in antenna design and engineering This pioneering guide deals primarily with frontier antenna designs and frontier numerical methods Many of the concepts presented have emerged within the last few years and are still in a rapid state of development Each chapter provides in depth details on a unique and modern antenna technology *Frontiers in Antennas* covers Ultra wideband antenna arrays using fractal polyfractal and aperiodic geometries Smart antennas using evolutionary signal processing methods The latest developments in Vivaldi antenna arrays Effective media models applied to artificial magnetic conductors and high impedance surfaces Novel developments in metamaterial antennas Biological antenna design methods using genetic algorithms Contact and parasitic methods applied to reconfigurable antennas Antennas in medicine ingestible capsule antennas using conformal meandered methods Leaky wave antennas Plasma antennas which can electronically appear and disappear Numerical methods in antenna modeling using time frequency and conformal domain decomposition methods

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.

Shaping the Future of ICT Ibrahim M. M. El Emary, Anna Brzozowska, 2017-09-19 The International Conference on Communications Management and Information Technology ICCMIT 16 provides a discussion forum for scientists, engineers, educators and students about the latest discoveries and realizations in the foundations, theory, models and applications of systems inspired on nature using computational intelligence methodologies as well as in emerging areas related to the three tracks of the conference: Communication Engineering, Knowledge and Information Technology. The best 25 papers to be included in the book will be carefully reviewed and selected from numerous submissions, then revised and expanded to provide deeper insight into trends shaping future ICT.

Artificial Transmission Lines for RF and Microwave Applications Ferran Martín, 2015-07-13 This book presents and discusses alternatives to ordinary transmission lines for the design and implementation of advanced RF/microwave components in planar technology. This book is devoted to the analysis, study and applications of artificial transmission lines mostly implemented by means of a host line conveniently modified, e.g. with modulation of transverse dimensions with etched patterns in the metallic layers, etc. or with reactive loading in order to achieve novel device functionalities, superior performance and/or reduced size. The author begins with an introductory chapter dedicated to the fundamentals of planar transmission lines. Chapter 2 is focused on artificial transmission lines based on periodic structures including non uniform transmission lines and reactively loaded lines and provides a comprehensive analysis of the coupled mode theory. Chapters 3 and 4 are dedicated to artificial transmission lines inspired by metamaterials or based on metamaterial concepts. These chapters include the main practical implementations of such lines and their circuit models and a wide overview of their RF/microwave applications including passive and active circuits and antennas. Chapter 5 focuses on

reconfigurable devices based on tunable artificial lines and on non linear transmission lines The chapter also introduces several materials and components to achieve tuning including diode varactors RF MEMS ferroelectrics and liquid crystals Finally Chapter 6 covers other advanced transmission lines and wave guiding structures such as electroinductive magnetoinductive wave lines common mode suppressed balanced lines lattice network artificial lines and substrate integrated waveguides Artificial Transmission Lines for RF and Microwave Applications provides an in depth analysis and discussion of artificial transmission lines including design guidelines that can be useful to researchers engineers and students

Research Anthology on Developing and Optimizing 5G Networks and the Impact on Society Management Association, Information Resources,2020-11-27 As technology advances the emergence of 5G has become an essential discussion moving forward as its applications and benefits are expected to enhance many areas of life The introduction of 5G technology to society will improve communication speed the efficiency of information transfer and end user experience to name only a few of many future improvements These new opportunities offered by 5G networks will spread across industry government business and personal user experiences leading to widespread innovation and technological advancement What stands at the very core of 5G becoming an integral part of society is the very fact that it is expected to enrich society in a multifaceted way enhancing connectivity and efficiency in just about every sector including healthcare agriculture business and more Therefore it has been a critical topic of research to explore the implications of this technology how it functions what industries it will impact and the challenges and solutions of its implementation into modern society Research Anthology on Developing and Optimizing 5G Networks and the Impact on Society is a critical reference source that analyzes the use of 5G technology from the standpoint of its design and technological development to its applications in a multitude of industries This overall view of the aspects of 5G networks creates a comprehensive book for all stages of the implementation of 5G from early conception to application in various sectors Topics highlighted include smart cities wireless and mobile networks radio access technology internet of things and more This all encompassing book is ideal for network experts IT specialists technologists academicians researchers and students

Antenna and Sensor Technologies in Modern Medical Applications Yahya Rahmat-Samii,Erdem Topsakal,2021-02-09 A guide to the theory and recent development in the medical use of antenna technology Antenna and Sensor Technologies in Modern Medical Applications offers a comprehensive review of the theoretical background design and the latest developments in the application of antenna technology Written by two experts in the field the book presents the most recent research in the burgeoning field of wireless medical telemetry and sensing that covers both wearable and implantable antenna and sensor technologies The authors review the integrated devices that include various types of sensors wired within a wearable garment that can be paired with external devices The text covers important developments in sensor integrated clothing that are synonymous with athletic apparel with built in electronics Information on implantable devices is also covered The book explores technologies that utilize both inductive coupling and

far field propagation These include minimally invasive microwave ablation antennas wireless targeted drug delivery and much more This important book Covers recent developments in wireless medical telemetry Reviews the theory and design of in vitro in vivo testing Explores emerging technologies in 2D and 3D printing of antenna sensor fabrication Includes a chapter with an annotated list of the most comprehensive and important references in the field Written for students of engineering and antenna and sensor engineers Antenna and Sensor Technologies in Modern Medical Applications is an essential guide to understanding human body interaction with antennas and sensors

Simulation-based Optimization Of Antenna Arrays Slawomir Koziel,Stanislav Ogurtsov,2019-02-13 The book addresses surrogate assisted design of antenna arrays in particular how surrogate models both data driven and physics based can be utilized to expedite procedures such as parametric optimization design closure statistical analysis or fault detection Algorithms and design frameworks are illustrated using a large variety of examples including real world printed circuit antenna and antenna array structures This unique compendium contains introductory materials concerning numerical optimization both conventional gradient based and derivative free including metaheuristics and surrogate based as well as a considerable selection of customized procedures developed specifically to handle antenna array problems Recommendations concerning practical aspects of surrogate assisted multi objective antenna optimization are also given The methods presented allow for cost efficient handling of antenna array design problems involving CPU intensive EM models in the context of design optimization and statistical analysis which will benefit both researchers designers and graduate students

Electromagnetics of Body Area Networks Douglas H. Werner,Zhi Hao Jiang,2016-07-20 The book is a comprehensive treatment of the field covering fundamental theoretical principles and new technological advancements state of the art device design and reviewing examples encompassing a wide range of related sub areas In particular the first area focuses on the recent development of novel wearable and implantable antenna concepts and designs including metamaterial based wearable antennas microwave circuit integrated wearable filtering antennas and textile and or fabric material enabled wearable antennas The second set of topics covers advanced wireless propagation and the associated statistical models for on body in body and off body modes Other sub areas such as efficient numerical human body modeling techniques artificial phantom synthesis and fabrication as well as low power RF integrated circuits and related sensor technology are also discussed These topics have been carefully selected for their transformational impact on the next generation of body area network systems and beyond

Computational Electromagnetics Raj Mittra,2013-08-20 Emerging Topics in Computational Electromagnetics in Computational Electromagnetics presents advances in Computational Electromagnetics This book is designed to fill the existing gap in current CEM literature that only cover the conventional numerical techniques for solving traditional EM problems The book examines new algorithms and applications of these algorithms for solving problems of current interest that are not readily amenable to efficient treatment by using the existing techniques The authors discuss solution techniques

for problems arising in nanotechnology bioEM metamaterials as well as multiscale problems They present techniques that utilize recent advances in computer technology such as parallel architectures and the increasing need to solve large and complex problems in a time efficient manner by using highly scalable algorithms

IoT Architectures, Models, and Platforms for Smart City Applications Chowdhry, Bhawani Shankar, Shaikh, Faisal Karim, Mahoto, Naeem

Ahmed, 2019-12-27 Developing countries are persistently looking for efficient and cost effective methods for transforming their communities into smart cities Unfortunately energy crises have increased in these regions due to a lack of awareness and proper utilization of technological methods These communities must explore and implement innovative solutions in order to enhance citizen enrollment quality of government and city intelligence IoT Architectures Models and Platforms for Smart City Applications provides emerging research exploring the theoretical and practical aspects of transforming cities into intelligent systems using IoT based design models and sustainable development projects This publication looks at how cities can be built as smart cities within limited resources and existing advanced technologies Featuring coverage on a broad range of topics such as cloud computing human machine interface and ad hoc networks this book is ideally designed for urban planners engineers IT specialists computer engineering students research scientists academicians technology developers policymakers researchers and designers seeking current research on smart applications within urban development

Handbook of Reflector Antennas and Feed Systems Volume II: Feed Systems Lotfollah Shafai, Satish K.

Sharma, Sudhakar Rao, 2013-07-01 This is the first truly comprehensive and most up to date handbook available on modern reflector antennas and feed sources for diversified space and ground applications There has never been such an all encompassing reflector handbook in print and no currently available title offers coverage of such recent research developments The Handbook consists of three volumes Volume II focuses on feed sources Reflector antennas are extraordinary devices that combine high gain with geometrical simplicity and can operate in broad frequency bands Their performance however depends on the electrical characteristics of the feed system with which they operate This comprehensive volume provides you with a solid understanding of feed system theory design and analysis Featuring chapters authored by experts in each aspect of feed systems this book takes you from fundamental mathematical techniques electrically small and large dual reflectors feed geometry and telemetry tracking and command antennas and more Throughout the book numerous examples are provided to guide you in the practical aspects of feed design

Communication, Management and Information Technology Marcelo Sampaio de Alencar, 2016-11-03

Communication Management and Information Technology contains the contributions presented at the International Conference on Communication Management and Information Technology ICCMIT 2016 Cosenza Italy 26-29 April 2016 organized by the Universal Society of Applied Research USAR The book aims at researchers scientists engineers and scholar students interested or involved in Computer Science and Systems Communication and Management *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

Antenna Engineering Handbook John Volakis, 2018-11-05 The gold standard reference on the design and application of classic and modern antennas fully updated to reflect the latest advances and technologies This new edition of the bible of antenna engineering has been updated to provide start to finish coverage of the latest innovations in antenna design and application You will find in depth discussion of antennas used in modern communication systems mobile and personal wireless technologies satellites radar deployments flexible electronics and other emerging technologies including 5G terahertz and wearable electronics

Antenna Engineering Handbook Fifth Edition is bolstered by real world examples hundreds of illustrations and an emphasis on the practical aspects of antennas Featuring 60 chapters and contributions from more than 80 renowned experts this acclaimed resource is edited by one of the world s leading antenna authorities This edition features all of the classic antenna types plus new and emerging designs with 13 all new chapters and important updates to nearly all chapters from past editions

Antenna Engineering Handbook Fifth Edition clearly explains cutting edge applications in WLANs automotive systems PDAs and handheld devices making it an indispensable companion for today s antenna practitioners and developers Coverage includes Antenna basics and classic antennas Design approaches for antennas and arrays Wideband and multiband antennas Antennas for mobile devices and PDAs automotive applications and aircraft Base station and smart antennas Beamforming and 5G antennas Millimeter wave and terahertz antennas Flexible wearable thin film origami dielectric and on chip antennas MIMO antennas and phased arrays Direction finding and GPS antennas Active antennas Low profile wideband antennas Nanoantennas Reflectors and other satellite and radio telescope antennas Low frequency HF VHF UHF ECM and ESM antennas Impedance matching techniques and material characteristics Metastructured and frequency selective surfaces Propagation and guided structures Computational techniques and toolsets Indoor and outdoor measurements

Smart Antennas with MATLAB, Second Edition Frank Gross, 2015-02-09 The most complete current guide to smart antenna design and performance Featuring new coverage of reconfigurable antennas vector antennas and direction finding antennas this up to date resource offers a rigorous review of the basic electromagnetic principles that drive smart antenna design and deployment Case studies and worked examples using MATLAB are provided End of chapter assignments reinforce the concepts presented Thoroughly revised to reflect recent developments and the latest technologies this is a comprehensive reference for all professionals students and researchers in the field of smart antennas

Smart Antennas with MATLAB Second Edition covers Fundamentals of electromagnetic fields Antenna fundamentals Array fundamentals Principles of random variables and processes Propagation channel characteristics Angle of arrival estimation Smart antennas Direction finding Electromagnetic vector sensors Smart

antenna design and optimization Intelligent Data Engineering and Analytics Vikrant Bhateja, Fiona Carroll, João Manuel R. S. Tavares, Sandeep Singh Sengar, Peter Peer, 2023-11-25 The book presents the proceedings of the 11th International Conference on Frontiers of Intelligent Computing Theory and Applications FICTA 2023 held at Cardiff School of Technologies Cardiff Metropolitan University Cardiff Wales UK during April 11 12 2023 Researchers scientists engineers and practitioners exchange new ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines in the book This book is divided into two volumes It covers broad areas of information and decision sciences with papers exploring both the theoretical and practical aspects of data intensive computing data mining evolutionary computation knowledge management and networks sensor networks signal processing wireless networks protocols and architectures This book is a valuable resource for postgraduate students in various engineering disciplines

Engineering Electromagnetics Explained Lakshman Kalyan, 2025-02-20 Engineering Electromagnetics Explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics Written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering We start with basic principles of electromagnetism including Coulomb's Law Gauss's Law and Maxwell's Equations then delve into advanced topics such as electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility EMC Key Features Clear and concise explanations of fundamental electromagnetics concepts Numerous examples and illustrations to aid understanding Practical applications and real world examples demonstrating electromagnetics relevance in engineering Comprehensive coverage of topics including transmission lines waveguides antennas and EMC End of chapter problems and exercises to reinforce learning This textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines It serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility Additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work **Next Generation Wireless Terahertz**

Communication Networks Saim Ghafoor, Mubashir Husain Rehmani, Alan Davy, 2021-08-10 The rapid growth of the data traffic demands new ways to achieve high speed wireless links The backbone networks data centers mission critical applications as well as end users sitting in office or home all require ultra high throughput and ultra low latency wireless links Sophisticated technological advancement and huge bandwidth are required to reduce the latency Terahertz band in this regard has a huge potential to provide these high capacity links where a user can download the file in a few seconds To realize the high capacity wireless links for future applications in this book different aspects of the Terahertz band wireless communication network are presented This book highlights the Terahertz channel characteristics and modeling antenna design and beamforming device characterization applications and protocols It also provides state of the art knowledge on

different communication aspects of Terahertz communication and techniques to realize the true potential of the Terahertz band for wireless communication *Satellite Communications* Joseph N. Pelton, 2011-11-25 The field of satellite communications represents the world's largest space industry Those who are interested in space need to understand the fundamentals of satellite communications its technology operation business economic and regulatory aspects This book explains all this along with key insights into the field's future growth trends and current strategic challenges Fundamentals of Satellite Communications is a concise book that gives all of the key facts and figures as well as a strategic view of where this dynamic industry is going Author Joseph N Pelton PhD former Dean of the International Space University and former Director of Strategic Policy at Intelstat presents a readable book about the entire essence of the satellite communication field

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