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Network Security and Communication Engineering

Proceedings of the 2014 International Conference on Network Security and Communication Engineering (NSCE 2014), Hong Kong, December 25-26, 2014

CRC Press The conference on network security and communication engineering is meant to serve as a forum for exchanging new developments and research progresss between scholars, scientists and engineers all over the world and providing a unique opportunity to exchange information, to present the latest results as well as to review the relevant issues on

Solutions and Applications of Scattering, Propagation, Radiation and Emission of Electromagnetic Waves

BoD – Books on Demand In this book, a wide range of different topics related to analytical as well as numerical solutions of problems related to scattering, propagation, radiation, and emission in different medium are discussed. Design of several devices and their measurements aspects are introduced. Topics related to microwave region as well as Terahertz and quasi-optical region are considered. Bi-isotropic metamaterial in optical region is investigated. Interesting numerical methods in frequency domain and time domain for scattering, radiation, forward as well as reverse problems and microwave imaging are summarized. Therefore, the book will satisfy different tastes for engineers interested for example in microwave engineering, antennas, and numerical methods.

Soft Computing: Theories and Applications

Proceedings of SoCTA 2016, Volume 2

Springer This book focuses on soft computing and its applications to solve real-life problems occurring in different domains ranging from medical and health care, supply chain management and image processing to cryptanalysis. It presents the proceedings of International Conference on Soft Computing: Theories and Applications (SoCTA 2016), offering significant insights into soft computing for teachers and researchers and inspiring more and more researchers to work in the field of soft computing. >The term soft computing represents an umbrella term for computational techniques like fuzzy logic, neural networks, and nature inspired algorithms. In the past few decades, there has been an exponential rise in the application of soft computing techniques for solving complex and intricate problems arising in different spheres of life. The versatility of these techniques has made them a favorite among scientists and researchers working in diverse areas. SoCTA is the first international conference being organized at Amity University Rajasthan (AUR), Jaipur. The objective of SoCTA 2016 is to provide a common platform to researchers, academicians, scientists, and industrialists working in the area of soft computing to share and exchange their views and ideas on the theory and application of soft computing techniques in multi-disciplinary areas. The aim of the conference is to bring together young and experienced researchers, academicians, scientists, and industrialists for the exchange of knowledge. SoCTA especially encourages the young researchers at the beginning of their career to participate in this conference and present their work on this platform.

Issues in Nuclear and Plasma Science and Technology: 2011 Edition

ScholarlyEditions Issues in Nuclear and Plasma Science and Technology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Nuclear and Plasma Science and Technology. The editors have built Issues in Nuclear and Plasma Science and Technology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Nuclear and Plasma Science and Technology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Nuclear and Plasma Science and Technology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

IEICE Transactions on Electronics

Development of Coherent Detector Technologies for Sub-Millimetre Wave Astronomy Observations

Springer The thesis describes the development of receiver technologies for sub-millimetre astronomy instruments, focusing on high performance coherent cryogenic detectors operating close to the superconductor gap frequency. The mixer chip which comprises the SIS devices, fed by a unilateral finline and matching planar circuits was fabricated on 15 micron silicon substrate using the recently developed Silicon-On-Insulator (SOI) technology. This offered broadband IF and RF performance, with fully integrated on-chip planar circuits resulting in an easily reproducible mixer chip and a simple mixer block. An important consequence of this design is that it can be extended to the supra-THz region and making the fabrication of multi-pixel heterodyne arrays feasible. The extension of the operation of major telescopes such as ALMA, APEX and the GLT from single pixel to large format arrays is the subject of extensive research at present time since it will allow fast mapping combined with high resolution of the submillimetre sky. The technology described in this thesis makes a major contribution to this effort.

Applications of Advanced Electromagnetics

Components and Systems

Springer Science & Business Media This text, directed to the microwave engineers and Master and PhD students, is on the use of electromagnetics to the development and design of advanced integrated components distinguished by their extended field of applications. The results of hundreds of authors scattered in numerous journals and conference proceedings are carefully reviewed and classed. Several chapters are to refresh the knowledge of readers in advanced electromagnetics. New techniques are represented by compact electromagnetic–quantum equations which can be used in modeling of microwave-quantum integrated circuits of future In addition, a topological method to the boundary value problem analysis is considered with the results and examples. One extended chapter is for the development and design of integrated components for extended bandwidth applications, and the technology and electromagnetic issues of silicon integrated transmission lines, transitions, filters, power dividers, directional couplers, etc are considered. Novel prospective interconnects based on different physical effects are reviewed as well. The ideas of topology is applicable to the electromagnetic signaling and computing, when the vector field maps can carry discrete information, and this area and the results in topological signaling obtained by different authors are analyzed, including the recently designed predicate logic processor operating spatially represented signal units. The book is rich of practical examples, illustrations, and references and useful for the specialists working at the edge of contemporary technology and electromagnetics.

Conference Digest : Seventeenth International Conference on Infrared and Millimeter Waves

14-17 December 1992, California Institute of

Technology, Pasadena, California

Wideband, Multiband, and Smart Antenna Systems

Springer Nature This book provides current R&D trends and novel approaches in design and analysis of broadband, multiband, and smart antennas for 5G and B5G mobile and wireless applications, as well as the identification of integration techniques of these antennas in a diverse range of devices. The book presents theoretical and experimental approaches to help the reader in understanding the unique design issues and more advanced research. Moreover, the book includes chapters on the fundamentals of antenna theory. The book is pertinent to professionals and researchers working in the field of antenna engineering; it is written for graduate students, researchers, academics, and industry practitioners who want to improve their understanding in the current research trends in design analysis of broadband, multiband, and smart antennas for wireless applications.

The Journal of the Korean Physical Society

Foundations for Microstrip Circuit Design

John Wiley & Sons Building on the success of the previous three editions, Foundations for Microstrip Circuit Design offers extensive new, updated and revised material based upon the latest research. Strongly design-oriented, this fourth edition provides the reader with a fundamental understanding of this fast expanding field making it a definitive source for professional engineers and researchers and an indispensable reference for senior students in electronic engineering. Topics new to this edition: microwave substrates, multilayer transmission line structures, modern EM tools and techniques, microstrip and planar transmision line design, transmission line theory, substrates for planar transmission lines, Vias, wirebonds, 3D integrated interposer structures, computer-aided design, microstrip and power-dependent effects, circuit models, microwave network analysis, microstrip passive elements, and slotline design fundamentals.

Proceedings of the 2001 Particle Accelerator Conference

Chicago, Illinois, U.S.A., June 18-22, 2001. Poster sessions

Smart Sensors, Actuators, and MEMS

19-21 May 2003, Maspalomas, Gran Canaria, Spain

Proceedings of the 1993 Particle Accelerator Conference

Papers from the Fifteenth Biennial Particle Accelerator Conference, an International Forum on Accelerator Science and Technology Held May 17-20, 1993, in Washington, D.C.

Microwave Circuit Modeling Using Electromagnetic Field Simulation

Artech House 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

Digest

Modern RF and Microwave Filter Design

Artech House This authoritative resource presents current practices for the design of RF and microwave filters. This one-stop reference provides readers with essential and practical information in order to design their own filter design software package, ultimately saving time and money. Essential building blocks for each type of filter are presented including network theory, transmission lines, and coupling mechanisms. This book presents a detailed discussion of the Low Pass Filter prototype, which is then extended to other configurations such as high pass, band pass, band stop, diplexers, and multiplexers. Microwave Network Theory and Transmission Line Coupling Mechanisms are presented along with a comprehensive discussion of the characteristics of commonly used transmission lines such as waveguides, Striplines, and Microstrip lines. Numerous design examples are presented to demonstrate an inclusive design methodology.

Distributed Power Amplifiers for RF and Microwave Communications

Artech House This new resource presents readers with all relevant information and comprehensive design methodology of wideband amplifiers. This book specifically focuses on distributed amplifiers and their main components, and presents numerous RF and microwave applications including well-known historical and recent architectures, theoretical approaches, circuit simulation, and practical implementation techniques. A great resource for practicing designers and engineers, this book contains numerous well-known and novel practical circuits, architectures, and theoretical approaches with detailed description of their operational principles.

RF and Microwave Coupled-line Circuits

Artech House Publishers Offers you an understanding of coupled line fundamentals, explaining their applications in designing microwave and millimeter-wave components used in communications, microwave, and radar systems.

Conference Proceedings

23rd European Microwave Conference 93, Monday 6th to Thursday 9th September 1993, Palacio de Congress, Madrid, Spain

Ridge Waveguides and Passive Microwave Components

IET The ridge waveguide, which is a rectangular waveguide with one or more metal inserts (ridges), is an important transmission line in microwave engineering, now widely used in commercial electronics and communications devices. This book collects together much of the work of Professor Helszajn, an international authority in the field, and will enable the reader to have direct access to this important work without need for exhaustive search of research papers. Generously illustrated, it is likely to become the definitive reference source on this topic.

Microwave Circuit Design Using Linear and Nonlinear Techniques

John Wiley & Sons The ultimate handbook on microwave circuit design with CAD. Full of tips and insights from seasoned industry veterans, Microwave Circuit Design offers practical, proven advice on improving the design quality of microwave passive and active circuits-while cutting costs and time. Covering all levels of microwave circuit design from the elementary to the very advanced, the book systematically presents computer-aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers, oscillators, and mixers. Using the newest CAD tools, the book shows how to design transistor and diode circuits, and also details CAD's usefulness in microwave integrated circuit (MIC) and monolithic microwave integrated circuit (MMIC) technology. Applications of nonlinear SPICE programs, now available for microwave CAD, are described. State-of-the-art coverage includes microwave transistors (HEMTs, MODFETs, MESFETs, HBTs, and more), high-power amplifier design, oscillator design including feedback topologies, phase noise and examples, and more. The techniques presented are illustrated with

several MMIC designs, including a wideband amplifier, a low-noise amplifier, and an MMIC mixer. This unique, one-stop handbook also features a major case study of an actual anticollision radar transceiver, which is compared in detail against CAD predictions; examples of actual circuit designs with photographs of completed circuits; and tables of design formulae.

Waveguide Components for Antenna Feed Systems

Theory and CAD

Artech House Antenna Library This book delivers an in-depth examinations of the three basic field-theoretical methods used for the design aid of different waveguide components. You'll find CAD algorithms, examples of their applications, and operational principles of various components used in antenna feed systems.

Introduction to RF Power Amplifier Design and Simulation

CRC Press Introduction to RF Power Amplifier Design and Simulation fills a gap in the existing literature by providing step-by-step guidance for the design of radio frequency (RF) power amplifiers, from analytical formulation to simulation, implementation, and measurement. Featuring numerous illustrations and examples of real-world engineering applications, this book: Gives an overview of intermodulation and elaborates on the difference between linear and nonlinear amplifiers Describes the high-frequency model and transient characteristics of metal–oxide–semiconductor field-effect transistors Details active device modeling techniques for transistors and parasitic extraction methods for active devices Explores network and scattering parameters, resonators, matching networks, and tools such as the Smith chart Covers power-sensing devices including four-port directional couplers and new types of reflectometers Presents RF filter designs for power amplifiers as well as application examples of special filter types Demonstrates the use of computer-aided design (CAD) tools, implementing systematic design techniques Blending theory with practice, Introduction to RF Power Amplifier Design and Simulation supplies engineers, researchers, and RF/microwave engineering students with a valuable resource for the creation of efficient, better-performing, low-profile, high-power RF amplifiers.

Technologies for Spacecraft Antenna Engineering Design

Springer Nature This book focuses on engineering design approaches for spacecraft antennas. Based on their functions in spacecraft, it discusses practical antenna design, measurement and testing. Most of the antennas covered originated at the China Academy of Space Technology (CAST), which has launched almost 300 satellites into orbit. The book presents antenna systems for seven existing spacecraft designs, while also introducing readers to new antenna technologies for spacecraft. This book is intended for researchers, graduate students, and engineers in various fields of aerospace technology and astronautics, especially spacecraft design, communication engineering and related areas.

Journal of Zhejiang University

Science. A.

Microwave Engineering and Applications

Intense Microwave Pulses

Mobile Multimedia Communications

6th International ICST Conference, MOBIMEDIA 2010, Lisbon, Portugal, September 6-8, 2010. Revised Selected Papers

Springer This book constitutes the thoroughly refereed post-conference proceedings of the 6th International ICST Conference on Mobile Multimedia Communications (MOBIMEDIA 2010) held in Lisbon, Portugal, in September 2010, which was accompanied by the First International Workshop on Cognitive Radio and Cooperative Strategies for POWER Saving (C2POWER 2010), the Workshop on Impact of Scalable Video Coding on Multimedia Provisioning (SVCVision

2010), and the First International Workshop on Energy-efficient and Reconfigurable Transceivers (EERT 2010). The 59 revised full papers presented were carefully reviewed and selected from numerous submissions and are organized in topical sections on advanced techniques for video transmission; multimedia distribution; modelling of wireless systems; cellular networks; mobility concepts for IMT-advances (MOBILIA); media independent handovers (MIH-4-MEDIA); and IP-based emergency applications and services for next generation networks (PEACE).

Balanced Microwave Filters

John Wiley & Sons LIST OF CONTRIBUTORS xix PREFACE xxiii PART 1 INTRODUCTION 1 1 INTRODUCTION TO BALANCED TRANSMISSION LINES, CIRCUITS, AND NETWORKS 3 Ferran Martín, Jordi Naqui, Francisco Medina, Lei Zhu, and Jiasheng Hong 1.1 Introduction 3 1.2 Balanced Versus Single-Ended Transmission Lines and Circuits 4 1.3 Common-Mode Noise 5 1.4 Fundamentals of Differential Transmission Lines 6 1.4.1 Topology 6 1.4.2 Propagating Modes 8 1.4.2.1 Even and Odd Mode 8 1.4.2.2 Common and Differential Mode 11 1.5 Scattering Parameters 13 1.5.1 Single-Ended S-Parameters 13 1.5.2 Mixed-Mode S-Parameters 16 1.6 Summary 19 References 19 PART 2 BALANCED TRANSMISSION LINES WITH COMMON-MODE NOISE SUPPRESSION 21 2 STRATEGIES FOR COMMON-MODE SUPPRESSION IN BALANCED LINES 23 Ferran Martín, Paris Vélez, Armando Fernández-Prieto, Jordi Naqui, Francisco Medina, and Jiasheng Hong 2.1 Introduction 23 2.2 Selective Mode Suppression in Differential Transmission Lines 25 2.3 Common-Mode Suppression Filters Based on Patterned Ground Planes 27 2.3.1 Common-Mode Filter Based on Dumbbell-Shaped Patterned Ground Plane 27 2.3.2 Common-Mode Filter Based on Complementary Split Ring Resonators (CSRRs) 30 2.3.3 Common-Mode Filter Based on Defected Ground Plane Artificial Line 40 2.3.4 Common-Mode Filter Based on C-Shaped Patterned Ground Structures 44 2.4 Common-Mode Suppression Filters Based on Electromagnetic Bandgaps (EBGs) 49 2.4.1 Common-Mode Filter Based on Nonuniform Coupled Lines 50 2.4.2 Common-Mode Filter Based on Uniplanar Compact Photonic Bandgap (UC-PBG) Structure 55 2.5 Other Approaches for Common-Mode Suppression 55 2.6 Comparison of Common-Mode Filters 60 2.7 Summary 61 Appendix 2.A: Dispersion Relation for Common-Mode Rejection Filters with Coupled CSRRs or DS-CSRRs 61 Appendix 2.B: Dispersion Relation for Common-Mode Rejection Filters with Coupled Patches Grounded through Inductive Strips 64 References 65 3 COUPLED-RESONATOR BALANCED BANDPASS FILTERS WITH COMMON-MODE SUPPRESSION DIFFERENTIAL LINES 73 Armando Fernández-Prieto, Jordi Naqui, Jesús Martel, Ferran Martín, and Francisco Medina 3.1 Introduction 73 3.2 Balanced Coupled-Resonator Filters 74 3.2.1 Single-Band Balanced Bandpass Filter Based on Folded Stepped-Impedance Resonators 75 3.2.2 Balanced Filter Loaded with Common-Mode Rejection Sections 79 3.2.3 Balanced Dual-Band Bandpass Filter Loaded with Common-Mode Rejection Sections 82 3.3 Summary 88 References 88 PART 3 WIDEBAND AND ULTRA-WIDEBAND (UWB) BALANCED BAND PASS FILTERS WITH INTRINSIC COMMON-MODE SUPPRESSION 91 4 WIDEBAND AND UWB BALANCED BANDPASS FILTERS BASED ON BRANCH-LINE TOPOLOGY 93 Teck Beng Lim and Lei Zhu 4.1 Introduction 93 4.2 Branch-Line Balanced Wideband Bandpass Filter 97 4.3 Balanced Bandpass Filter for UWB Application 105 4.4 Balanced Wideband Bandpass Filter with Good Common-Mode Suppression 111 4.5 Highly Selective Balanced Wideband Bandpass Filters 116 4.6 Summary 131 References 131 5 WIDEBAND AND UWB COMMON-MODE SUPPRESSED DIFFERENTIAL-MODE FILTERS BASED ON COUPLED LINE SECTIONS 135 Qing-Xin Chu, Shi-Xuan Zhang, and Fu-Chang Chen 5.1 Balanced UWB Filter by Combining UWB BPF with UWB BSF 135 5.2 Balanced Wideband Bandpass Filter Using Coupled Line Stubs 142 5.3 Balanced Wideband Filter Using Internal Cross-Coupling 148 5.4 Balanced Wideband Filter Using Stub-Loaded Ring Resonator 155 5.5 Balanced Wideband Filter Using Modified Coupled Feed Lines and Coupled Line Stubs 161 5.6 Summary 173 References 174 6 WIDEBAND DIFFERENTIAL CIRCUITS USING T-SHAPED STRUCTURES AND RING RESONATORS 177 Wenquan Che and Wenjie Feng 6.1 Introduction 177 6.2 Wideband Differential Bandpass Filters Using T-Shaped Resonators 179 6.2.1 Mixed-Mode S-Parameters for Four-Port Balanced Circuits 179 6.2.2 T-Shaped Structures with Open/Shorted Stubs 184 6.2.2.1 T-Shaped Structure with Shorted Stubs 184 6.2.2.2 T-Shaped Structure with Open Stubs 185 6.2.3 Wideband Bandpass Filters without Cro

Electromagnetics and Calculation of Fields

Springer Science & Business Media This introduction to electromagnetic fields emphasizes the computation of fields and the development of theoretical relations. It presents the electromagnetic field and Maxwell's equations with a view toward connecting the disparate applications to the underlying relations, along with computational methods of solving the equations.

Waves in Metamaterials

Oxford University Press Metamaterials is a young subject born in the 21st century. It is concerned with artificial materials which can have electrical and magnetic properties difficult or impossible to find in nature. The building blocks in most cases are resonant elements much smaller than the wavelength of the electromagnetic wave. The book offers a comprehensive treatment of all aspects of research in this field at a level that should appeal to final year undergraduates in physics or in electrical and electronic engineering. The mathematics is kept at a minimum; the aim is to explain the physics in simple terms and enumerate the major advances. It can be profitably read by graduate and post-graduate students in order to find out what has been done in the field outside their speciality, and by experts who may gain new insight about the inter-relationship of the physical phenomena involved.

Dissertation Abstracts International

The sciences and engineering. B

WITS 2020

Proceedings of the 6th International Conference on Wireless Technologies, Embedded, and Intelligent Systems

Springer Nature This book presents peer-reviewed articles from the 6th International Conference on Wireless Technologies, Embedded and Intelligent Systems (WITS 2020), held at Fez, Morocco. It presents original research results, new ideas and practical lessons learnt that touch on all aspects of wireless technologies, embedded and intelligent systems. WITS is an international conference that serves researchers, scholars, professionals, students and academicians looking to foster both working relationships and gain access to the latest research results. Topics covered include Telecoms & Wireless Networking Electronics & Multimedia Embedded & Intelligent Systems Renewable Energies.

Stepped-Frequency Radar Sensors

Theory, Analysis and Design

Springer This book presents the theory, analysis and design of microwave stepped-frequency radar sensors. Stepped-frequency radar sensors are attractive for various sensing applications that require fine resolution. The book consists of five chapters. The first chapter describes the fundamentals of radar sensors including applications followed by a review of ultra-wideband pulsed, frequency-modulated continuous-wave (FMCW), and stepped-frequency radar sensors. The second chapter discusses a general analysis of radar sensors including wave propagation in media and scattering on targets, as well as the radar equation. The third chapter addresses the analysis of stepped-frequency radar sensors including their principles and design parameters. Chapter 4 presents the development of two stepped-frequency radar sensors at microwave and millimeter-wave frequencies based on microwave integrated circuits (MICs), microwave monolithic integrated circuits (MMICs) and printed-circuit antennas, and discusses their signal processing. Chapter 5 provides the electrical characterization and test results of the developed microwave and millimeter-wave stepped-frequency radar sensors. Finally, a summary and conclusion is provided.

Proceedings of the Eighth International Conference on Soft Computing and Pattern Recognition (SoCPaR 2016)

Springer This volume presents 70 carefully selected papers from a major joint event: the 8th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2016) and the 8th International Conference on Computational Aspects of Social Networks (CASoN 2016). SoCPaR-CASoN 2016, which was organized by the Machine Intelligence Research Labs (MIR Labs), USA and Vellore Institute of Technology (VIT), India and held at the VIT on December 19–21, 2016. It brings together researchers and practitioners from academia and industry to share their experiences and exchange new ideas on all interdisciplinary areas of soft computing and pattern recognition, as well as intelligent methods applied to social networks. This book is a valuable resource for practicing engineers/scientists and researchers working in the field of soft computing, pattern recognition and social networks.

Planar Antennas

Design and Applications

CRC Press This comprehensive reference text discusses fundamental concepts, applications, design techniques, and challenges in the field of planar antennas. The text focuses on recent advances in the field of planar antenna design and their applications in various fields of research, including space communication, mobile communication, wireless communication, and wearable applications. This resource presents planar antenna design concepts, methods, and techniques to enhance the performance parameters and applications for IoTs and device-to-device communication. The latest techniques used in antenna design, including their structures defected ground, MIMO, and fractal design, are discussed comprehensively. The text will be useful for senior undergraduate students, graduate students, and

academic researchers in fields including electrical engineering, electronics, and communication engineering.

RF Superconductivity for Accelerators

Wiley-VCH This book introduces some of the key ideas of RF Superconductivity by using a pedagogic approach, and presents a comprehensive overview of the field. It is divided into four parts. The first part introduces the basic concepts of microwave cavities for particle acceleration. The second part is devoted to the observed behavior of superconducting cavities. In the third part, general issues connected with beam-cavity interaction and related issues for critical components are covered. The final part discusses applications of superconducting cavities to frontier accelerators of the future, drawing heavily on examples that are in their most advanced stage. Each part of the book ends in a problems section to illustrate and amplify text material as well as to draw on example applications of superconducting cavities to existing and future accelerators. FROM THE CONTENTS: * Basics * Performance of Superconducting Cavities * Couplers and Tuners * Frontier Accelerators

2017 International Conference on Microelectronic Devices, Circuits and Systems (ICMDCS)

The conference covers the subject areas including digital IC design, analog RF Mixed Signal IC design, Device Modeling and Technology, RF communication circuits, embedded systems nonlinear circuits and system In addition to the technical papers, the conference also covers tutorials on recent advancements in the above said areas, Keynote and Plenary sessions by leading industry leaders and renowned academicians

AlGaN-GaN-HEMT Power Amplifiers with Optimized Power-added Efficiency for X-band Applications

KIT Scientific Publishing