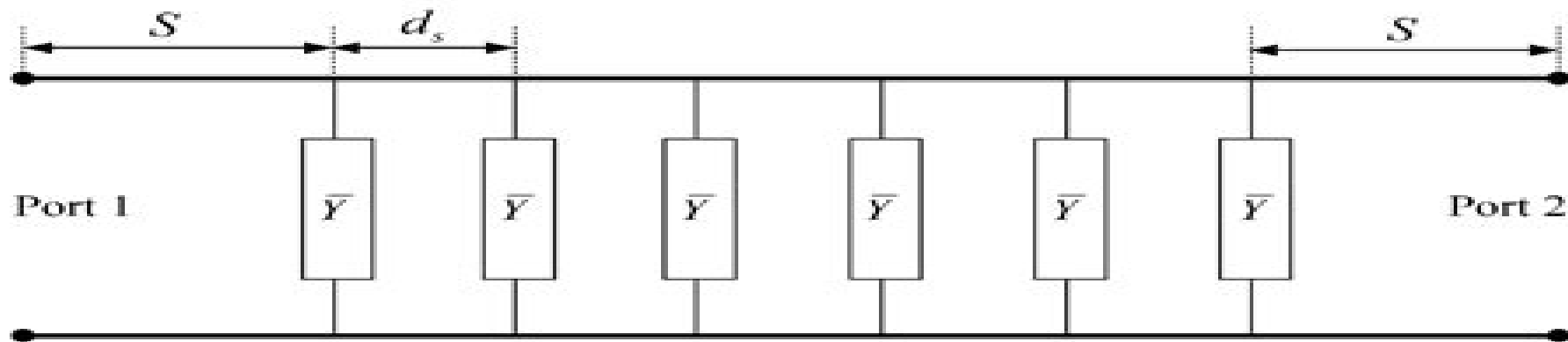


(a)



(b)

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Alan J. Sangster



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Fractal Apertures in Waveguides, Conducting Screens and Cavities Basudeb Ghosh, Sachendra N. Sinha, M. V. Kartikeyan, 2014-06-12 This book deals with the design and analysis of fractal apertures in waveguides conducting screens and cavities using numerical electromagnetics and field solvers The aim is to obtain design solutions with improved accuracy for a wide range of applications To achieve this goal a few diverse problems are considered The book is organized with adequate space dedicated for the design and analysis of fractal apertures in waveguides conducting screens and cavities microwave millimeter wave applications followed by detailed case study problems to infuse better insight and understanding of the subject Finally summaries and suggestions are given for future work Fractal geometries were widely used in electromagnetics specifically for antennas and frequency selective surfaces FSS The self similarity of fractal geometry gives rise to a multiband response whereas the space filling nature of the fractal geometries makes it an efficient element in antenna and FSS unit cell miniaturization Until now no efforts were made to study the behavior of these fractal geometries for aperture coupling problems The aperture coupling problem is an important boundary value problem in electromagnetics and used in waveguide filters and power dividers slotted ground planes frequency selective surfaces and metamaterials The present book is intended to initiate a study of the characteristics of fractal apertures in waveguides conducting screens and cavities To perform a unified analysis of these entirely dissimilar problems the generalized network formulation of the aperture problems by Mautz and Harrington was extended to multiple aperture geometry The authors consider the problem of coupling between two arbitrary regions coupled together via multiple apertures of arbitrary shape MATLAB codes were developed for the problems and validated with the results available in the literature as well as through simulations on ANSOFT's HFSS

Innovations in Data Engineering: Sustainability for Societal and Industrial Impact Vikrant Bhateja, Muhammad Ehsan Rana, Hrudaya Kumar Tripathy, Roman Senkerik, 2025-08-28 This book includes selected papers presented at the 5th International Conference on Data Engineering and Communication Technology ICDECT 2024 held at Asia Pacific University of Technology and Innovation APU Kuala Lumpur Malaysia during 28-29 September 2024 It features advanced multidisciplinary research towards the design of smart computing information systems and electronic systems It also focuses on various innovation paradigms in system knowledge intelligence and sustainability which can be applied to provide viable solutions to diverse problems related to society the environment and industry

Micro-Electronics and Telecommunication Engineering Devendra Kumar Sharma, Sheng-Lung Peng, Rohit Sharma, Gwanggil Jeon, 2023-06-01 The book presents high quality papers from the Sixth International Conference on Microelectronics and Telecommunication Engineering ICMETE 2022 It discusses the latest technological trends and advances in major research areas such as microelectronics wireless communications optical communication signal processing image processing big data cloud computing artificial intelligence and sensor network applications This book includes the contributions of national and

international scientists researchers and engineers from both academia and the industry The contents of this book are useful to researchers professionals and students alike **Smart Antennas** Praveen Kumar Malik,Joan Lu,B T P Madhav,Geeta Kalkhambkar,Swetha Amit,2022-02-03 This book presents the latest techniques for the design of antenna focusing specifically on the microstrip antenna The authors discuss antenna structure defected ground MIMO and fractal design The book provides the design of microstrip antenna in terms of latest applications and uses in areas like IoT and device to device communication The book also provides the current methods and techniques used for the enhancement of the performance parameters of the microstrip antenna Chapters enhance the knowledge and skills of students and researchers in the latest in the communications world like IoT D2D satellite wearable devices etc The authors discuss applications such as microwave imaging medical implants hyperthermia treatments and wireless wellness monitoring and how a decrease in size of antenna help facilitate application potential Provides the latest techniques used for the design of antenna in terms of its structure defected ground MIMO and fractal design Outlines steps to resolve issues with designing antenna including the latest design and design parameters for microstrip antenna Presents the design of conformal and miniaturized antenna structures for various applications Antenna Design for Narrowband IoT: Design, Analysis, and Applications Pattanaik, Balachandra,Saravanan, M.,Saravanakumar, U.,T R, Ganesh Babu,2022-03-11 In internet of things IoT applications wireless connectivity is a key factor particularly those that need to be in transition or where wired communication is not effective or practicable For top notch connectivity of the Narrowband IoT NB IoT standard the 900MHz frequency is generally used by most of the vendors The radiation quality not only depends on the antenna geometry but on immediate surroundings Additionally the IoT product itself and the user of the product can strongly affect the resulting radiation pattern and other characteristics of the antenna On the other hand a suitable antenna should also have high efficiency and adequate bandwidth covering the desired frequency range To take these effects into consideration the whole IoT product must be included in the antenna simulations Antenna Design for Narrowband IoT Design Analysis and Applications provides the antenna design concept for narrowband internet of things applications performs a detailed analysis of the antenna and discusses the various antenna design concepts and structures Covering a range of topics such as antenna design and antenna measurement systems this book is ideal for industry professionals research scholars academicians professors and students **VLSI, Microwave and Wireless Technologies** Brijesh Mishra,Manish Tiwari,2022-09-03 This book comprises the proceedings of the International Conference on VLSI Microwave and Wireless Technologies ICVMWT 2021 The book includes peer reviewed papers on the core technological developments in emerging fields like wireless communication RF microwave radar VLSI optical communication etc The book will serve as a valuable reference resource for academics and researchers across the globe **Futuristic Communication and Network Technologies** N. Subhashini,Morris. A. G. Ezra,Shien-Kuei Liaw,2023-06-22 This book presents select proceedings of the Virtual International Conference on Futuristic Communication

and Network Technologies VICFCNT 2021 It covers various domains in communication engineering and networking technologies This volume comprises recent research in areas like cyber physical systems acoustics speech video signal Processing and the Internet of Things This book is a collated work of academicians researchers and industry personnel from the international arena This book will be useful for researchers professionals and engineers working in the core areas of electronics and communication

Microwaves, Millimeter Wave and Terahertz Liquid Crystals Anyong Qing,Yizhe Zhao,Zhiyong Zhang,2024-03-05 This book is the first ever monograph on nematic liquid crystals for microwaves millimeter waves and terahertz waves It presents the first hand independent studies on nematic liquid crystals for microwaves millimeter waves and terahertz waves This book opens with an introduction to generic liquid crystals and a retrospective review about nematic liquid crystals in microwaves millimeter waves and terahertz waves Attention is then focused on the latest in house progress on microwave millimeter wave and terahertz nematic liquid crystals Synthesis and characterization of novel nematic liquid crystals are first presented followed by indigenous technologies to manufacture functional nematic liquid crystal devices for microwaves millimeter waves and terahertz waves A few self developed representative advanced functional devices are shown to demonstrate the promising perspective of liquid crystals for not only microwaves millimeter waves and terahertz waves but also many other non display applications The presented studies will attract scientists engineers and students from various disciplines such as materials chemical electrical biological and biomedical engineering The book is intended for undergraduates graduates researchers professionals and industrial practitioners who are interested in developing novel liquid crystals and further extending liquid crystals beyond display

Advanced Millimeter-wave Technologies Duixian Liu,Ulrich Pfeiffer,Janusz Grzyb,Brian Gaucher,2009-04-06 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

Recent Advances in Computing Sciences Sophiya Sheikh,Manmohan Sharma,Amar Singh,2023-12-21 The 1st International Conference on Recent Advances in Computing Sciences RACS 2022 organized by the School of Computer Application Lovely Professional University Jalandhar Punjab from 4th to 5th November 2022 The conference focuses on discussing issues exchanging ideas and the most recent innovations towards the advancement of research in the field of Computing Sciences and Technology All

technical sessions were predominantly related to Data Science Artificial Intelligence Remote Sensing Image Processing Computer Vision Data Forensics Cyber Security Computational Sciences Simulation Modelling Business Analytics and Machine Learning The main objective of this conference is to provide a common platform for academia and industry to discuss various technological challenges and share cognitive thoughts It provided a thought provoking platform to discuss and disseminate novel solutions for real world problems in a dynamic and changing technological environment The main success of RACS 2022 is to give an opportunity for the participants to enhance their knowledge of recent computing technologies

Communications, Signal Processing, and Systems Qilian Liang, Wei Wang, Xin Liu, Zhenyu Na, Min Jia, Baoju Zhang, 2020-04-04 This book brings together papers from the 2019 International Conference on Communications Signal Processing and Systems which was held in Urumqi China on July 20 22 2019 Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications to signal processing and systems It is chiefly intended for undergraduate and graduate students in electrical engineering computer science and mathematics researchers and engineers from academia and industry as well as government employees

Advanced signal processing techniques in radiation detection and imaging Jian Dong, Zilong Liu, Yayun Cheng, 2023-12-26

Compact Slot Array Antennas for Wireless Communications Alan J. Sangster, 2018-11-11 This book describes and provides design guidelines for antennas that achieve compactness by using the slot radiator as the fundamental building block within a periodic array rather than a phased array It provides the basic electromagnetic tools required to design and analyse these novel antennas with sample calculations where relevant The book presents a focused introduction and valuable insights into the relevant antenna technology together with an overview of the main directions in the evolving technology of compact planar arrays While the book discusses the historical evolution of compact array antennas its main focus is on summarising the extensive body of literature on compact antennas With regard to the now ubiquitous slot radiator it seeks to demonstrate how despite significant antenna size reductions that at times even seem to defy the laws of physics desirable radiation pattern properties can be preserved This is supported by an examination of recent advances in frequency selective surfaces and in metamaterials which can if handled correctly be used to facilitate physics defying designs The book offers a valuable source of information for communication systems and antenna design engineers especially thanks to its overview of trends in compact planar arrays yet will also be of interest to students and researchers as it provides a focused introduction and insights into this highly relevant antenna 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 Signal Processing and Communication Banmali S. Rawat, Aditya

Trivedi, Sanjeev Manhas, Vikram Karwal, 2018-11-19 This book is a collection of selected peer reviewed papers presented at the International Conference on Signal Processing and Communication ICSC 2018 It covers current research and developments in the fields of communications signal processing VLSI circuits and systems and embedded systems The book offers in depth discussions and analyses of latest problems across different sub fields of signal processing and communications The contents of this book will prove to be useful for students researchers and professionals working in electronics and electrical engineering as well as other allied fields

Dielectric Resonator Antennas Zhijiao Chen, Jing-Ya

Deng, Haiwen Liu, 2023-11-30 Dielectric Resonator Antennas A detailed guide to dielectric based techniques for antenna array design and construction Dielectric designs which transmit electricity without conducting it have in recent decades been increasingly incorporated into antenna arrays The resulting Dielectric Resonator Antennas DRAs provide significant benefits over metal antennas avoiding conduction loss and increasing efficiency Dielectric elements can also be incorporated into

metal antennas to improve performance Dielectric Resonator Antennas provides an introduction to dielectric based techniques for manufacturing antenna arrays It supplies guidelines for identifying dielectric antenna designs as opposed to metal ones describes recent developments in dielectric antenna technology and points toward potential areas of future growth and development Readers will also find Cutting edge DRA applications in microwave and millimeter wave communications Detailed discussion of array types including wideband high gain high efficiency and more Instructions for fabricating dielectric antenna arrays and assessing tolerance levels Dielectric Resonator Antennas is ideal for researchers and students in electrical engineering as well as for engineers and others working in wireless communications

Proceedings of Third International Conference on Computational Electronics for Wireless Communications

Sanyog Rawat,Arvind Kumar,Ashish Raman,Sandeep Kumar,Parul Pathak,2024-12-01 This book includes high quality papers presented at the Third International Conference on Computational Electronics for Wireless Communications ICCWC 2023 held at Dr B R Ambedkar National Institute of Technology Jalandhar India during December 22 23 2023 The book presents original research work of academics and industry professionals to exchange their knowledge of the state of the art research and development in computational electronics with an emphasis on wireless communications The topics covered in the book are radio frequency and microwave signal processing microelectronics and wireless networks

Micro Molding of Polymeric Antennas and Energy Harvesters Yiin-Kuen Fuh,2009 **Issues in Electronic Circuits, Devices, and Materials: 2012 Edition** ,2013-01-10 Issues in Electronic Circuits Devices and Materials 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Lasers and Photonics The editors have built Issues in Electronic Circuits Devices and Materials 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Lasers and Photonics 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 Electronic Circuits Devices and Materials 2012 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>

Analysis and Design of Substrate Integrated Waveguide Using Efficient 2D Hybrid Method Xuan Hui Wu,Ahmed A. Kishk,2010 This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science Synthesis Lectures provide concise original presentations of important research and development topics published quickly in digital and print formats For more information visit www.morganclaypool.com Book Jacket

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