



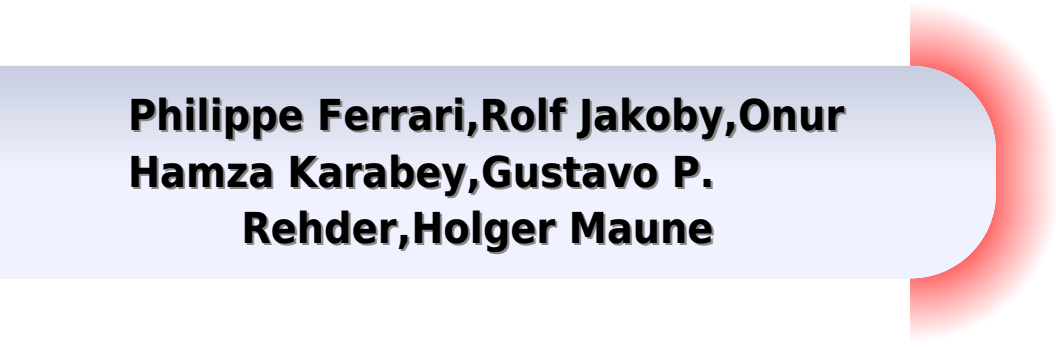
International Journal of Antennas and Propagation

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International Journal Of Antennas And Propagation



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International Journal Of Antennas And Propagation:

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 book's 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

Band-Notch Characteristics in Ultra-Wideband Antennas Taimoor Khan, Yahia M.M. Antar, 2021-06-08 This book comprehensively reviews ultra wideband UWB and UWB multi input multi output MIMO antennas with band notched characteristics with a focus on interference cancellation functionality The book is organized into seven chapters that cover single band dual band and multi band notched UWB antennas followed by band notched characteristics in UWB MIMO antennas Further it explains the mechanism of reconfigurability and tunability in band notched UWB antennas including advanced applications of UWB systems Overall it covers different techniques of canceling the electromagnetic interference in UWB in a concise volume Features Provides a comprehensive presentation of avoiding interference in UWB systems Reviews state of the art literature related to UWB antennas filters and various reconfigurable technologies Explains different techniques for producing band notch characteristics in UWB systems Includes discussion on historical perspectives of UWB technology Consolidates different research activities carried out on the electromagnetic interference cancellation techniques in the UWB communication systems *Band Notch Characteristics in Ultra Wideband Antennas* is aimed at researchers and graduate students in electrical and antenna engineering Taimoor Khan has been an Assistant Professor at the Department of Electronics and Communication Engineering National Institute of Technology Silchar since 2014 In addition to this Dr Khan has also worked as a Visiting Assistant Professor at Asian Institute of Technology Bangkok Thailand during September-December 2016 His active research interests include Printed Microwave Circuits Electromagnetic Bandgap Structures Ultra wideband Antennas Dielectric Resonator Antennas Ambient Microwave Energy Harvesting and Artificial Intelligence Paradigms in Electromagnetics Dr Khan has successfully guided three Ph D

theses and is supervising six Ph D students He has published over 75 research articles in well indexed journals and in world renowned conference proceedings Currently he is executing three funded research projects including two international collaborative SPARC and VAJRA research projects In September 2020 Dr Khan has been awarded a prestigious national IETE Prof SVC Aiya Memorial Award for the year 2020 Yahia M M Antar has been a Professor at the Department of Electrical and Computer Engineering Royal Military College of Canada since 1990 He served as the Chair of CNC URSI from 1999 to 2008 Commission B from 1993 to 1999 and has a cross appointment at Queen s University in Kingston He has authored and co authored over 250 journal papers several books and chapters in books over 500 refereed conference papers holds several patents has chaired several national and international conferences and has given plenary talks at many conferences Dr Antar is a fellow of the Engineering Institute of Canada the Electromagnetic Academy and an International Union of Radio Science URSI He was elected by the URSI to the Board as the Vice President in 2008 and in 2014 and to the IEEE AP AdCom in 2009 In 2011 he was appointed as a member of the Canadian Defence Advisory Board DAB of the Canadian Department of National Defence He serves as an Associate Editor for many IEEE and IET Journals and as an IEEE APS Distinguished Lecturer Presently he is working as President Elect for IEEE Antenna and Propagation Society for the year 2020

Microstrip Antennas N Nasimuddin, 2011-04-04 In the last 40 years the microstrip antenna has been developed for many communication systems such as radars sensors wireless satellite broadcasting ultra wideband radio frequency identifications RFIDs reader devices etc The progress in modern wireless communication systems has dramatically increased the demand for microstrip antennas In this book some recent advances in microstrip antennas are presented **Microstrip Antenna Design for Wireless Applications** Praveen Kumar Malik, Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen, 2021-11-29 This book focuses on recent advances in the field of microstrip antenna design and its applications in various fields including space communication mobile communication wireless communication medical implants and wearable applications Scholars as well as researchers and those in the electronics electrical instrumentation engineering fields will benefit from this book The book shall provides the necessary literature and techniques using which to assist students and researchers would design antennas for the above mentioned applications and will ultimately enable users to take measurements in different environments It is intended to help scholars and researchers in their studies by enhancing their the knowledge and skills in on the latest applications of microstrip antennas in the world of communications such as world like IoT D2D satellites and wearable devices to name a few **FEATURES** Addresses the complete functional framework workflow in printed antenna design systems Explores the basic and high level concepts including advanced aspects in planer design issues thus serving as a manual for those in the the industry while also assisting beginners Provides the latest techniques used for antennas in terms of structure defected ground MIMO and fractal designs Discusses case studies related to data intensive technologies in microchip antennas in terms of the most recent applications and similar uses for the Internet of Things and device to device

communication **LTE Communications and Networks** Masood Ur Rehman, Ghazanfar Ali Safdar, 2018-06-11 A comprehensive resource to the latest developments of system enhancement techniques of Femtocells power management interference mitigation and antenna design LTE Communications and Networks fills a gap in the literature to offer a comprehensive review of the most current developments of LTE Femtocells and antennas and explores their future growth With contributions from a group of experts that represent the fields of wireless communications and mobile communications signal processing and antenna design this text identifies technical challenges and presents recent results related to the development integration and enhancement of LTE systems in portable devices The authors examine topics such as application of cognitive radio with efficient sensing mechanisms interference mitigation and power management schemes for the LTE systems They also provide a comprehensive account of design challenges and approaches performance enhancement techniques and effects of user's presence on the LTE antennas LTE Communications and Networks also highlights the promising technologies of multiband multimode and reconfigurable antennas for efficient design of portable LTE devices Designed to be a practical resource this text Explores the interference mitigation power control and spectrum management in LTE Femtocells and related issues Contains information on the design challenges different approaches performance enhancement and application case scenarios for the LTE antennas Covers the most recent developments of system enhancement techniques in terms of Femtocells power management interference mitigation and antenna design Includes contributions from leading experts in the field Written for industry professionals and researchers LTE Communications and Networks is a groundbreaking book that presents a comprehensive treatment to the LTE systems in the context of Femtocells and antenna design and covers the wide range of issues related to the topic **Planar Antennas** Praveen Kumar Malik, 2021-10-21 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 **Elements of Radio Frequency Energy Harvesting and Wireless Power Transfer Systems** Taimoor Khan, Nasimuddin, Yahia M.M. Antar, 2020-11-12 This book focuses on elementary concepts of both radio frequency energy harvesting RFEH and wireless power transfer WPT and highlights their fundamental requirements followed by recent advancements It provides a systematic overview of the key components required for RFEH and WPT applications and also comprehensively introduces the pioneering research advancements

achieved to date The state of the art circuit design topologies for the two different applications are presented mainly in terms of antenna operating frequencies polarization characteristics efficient matching network circuits rectifier topologies and overall rectenna systems The book serves as a single point of reference for practicing engineers and researchers searching for potential sources and elements involved in the RFEH system as well as in the WPT system and need rapid training and design guidelines in the following areas Different sensing elements used in RFEH and WPT Inclusions of mathematical expressions and design problems Illustration of some design examples and performance enhancement techniques

Printed Antennas Binod Kumar Kanaujia,Surendra Kumar Gupta,Jugul Kishor,Deepak Gangwar,2020-11-22 Printed antennas have become an integral part of next generation wireless communications and have been found to be commonly used to improve system capacity data rate reliability etc This book covers theory design techniques and the chronological regression of the printed antennas for various applications This book will provide readers with the basic conceptual knowledge about antennas along with advanced techniques for antenna design It covers a variety of analytical techniques and their CAD applications and discusses new applications of printed antenna technology such as sensing The authors also present special reconfigurable antennas such as ME dipole polarization feeding and DGS The book will be useful to students as an introduction to design and applications of antennas Additionally experienced researchers in this field will find this book a ready reference and benefit from the techniques of research in printed antennas included in this book Following are some of the salient features of this book Covers a variety of analytical techniques and their CAD applications Discusses new applications of printed antenna technology such as sensing Examines the state of design techniques of printed antenna Presents special reconfigurable antennas such as ME dipole polarization feeding and DGS

Advances in Science, Engineering and Technology Tasneem Ahmed,Shrish Bajpai,Mohammad Faisal,Suman Lata Tripathi,2025-05-23 The objective of the conference was to provide a common platform for innovative academicians and industrial experts working in the fields of sciences engineering and information technology It provided a platform for knowledge exchange and the development of new ideas on the transformative technologies of quantum computing video analytics Artificial Intelligence and Machine Learning The conference also discussed the significance of cutting edge technologies specifically Machine Learning and its pivotal role in the future of science and industry

Multifunctional Operation and Application of GPS Rustam B. Rustamov,A.M. Hashimov,2018-05-30 Today Global Positioning System GPS has taken a significant place in human life with wide scale applications It is a multi use space based radio navigation system embracing defense and security civil commercial and scientific research needs Taking into account the importance of the system it has been suggested to present current advances of GPS with attention focused on vital aspects of technology This book provides a general description of GPS GNSS and GLONASS with reference to the improvement of characteristics of the segments including software applications and the equipment itself containing GPS The book also provides information on application areas Equally a

number of common shortcomings and errors are described and elimination and minimization of such consequences are demonstrated

Practical Antenna Abhishek Kumar Awasthi, Abhinav Sharma, Kushmanda Saurav, 2024-12-03 Antennas are an important component of every communication systems including radio television satellite radar and cellular networks which transmits and receive radio waves over the wireless channel The field of antenna is quite vast and with the current development in the wireless technologies enormous amount of work and effort has been put in the design analysis and applications of antennas As an individual a reader has to put a lot of effort to understand the modern antenna analysis and design for various applications Therefore the editors and authors of this book have come up with an idea of putting all the necessary information required at one centralized place in the form of a book The readers of this book will be able to access all the necessary information of antennas from basic to advanced theory to practical and its modern applications The text provides information on antenna design for next generation communication systems and IoT applications followed by the integration of the antennas in the wireless system and also covers multi input and multi output MIMO antennas metasurface antennas reconfigurable antennas fractal antennas and design of beamforming networks This book Focuses on modern antennas for 5G communication systems and next generation Internet of Things IoT networks Highlights fractal radiator based printed linear antenna arrays designed for direct broadcast satellite applications with a particular focus on direct to home DTH services Covers the implementation of modern swarm intelligence optimization techniques for antenna array pattern synthesis Includes general framework for the design and optimization of metasurface antennas Presents design and development of high gain millimeter wave beam switching antennas using passive frequency selective surfaces FSS This book can also serve as a valuable reference for undergraduate post graduate students as well as researchers working in radio frequency RF and microwave

Scattering Cross Section of Unequal Length Dipole Arrays Hema Singh, H. L. Sneha, Rakesh Mohan Jha, 2015-09-28 This book presents a detailed and systematic analytical treatment of scattering by an arbitrary dipole array configuration with unequal length dipoles different inter element spacing and load impedance It provides a physical interpretation of the scattering phenomena within the phased array system The antenna radar cross section RCS depends on the field scattered by the antenna towards the receiver It has two components viz structural RCS and antenna mode RCS The latter component dominates the former especially if the antenna is mounted on a low observable platform The reduction in the scattering due to the presence of antennas on the surface is one of the concerns towards stealth technology In order to achieve this objective a detailed and accurate analysis of antenna mode scattering is required In practical phased array one cannot ignore the finite dimensions of antenna elements coupling effect and the role of feed network while estimating the antenna RCS This book presents the RCS estimation of an array with unequal length dipoles The signal reflections within the antenna system and the mutual coupling effect are considered to arrive at the total RCS for series and parallel feed The computations are valid for any arbitrary array configurations including side by side arrangement parallel in echelon etc

Substrate Integrated Antennas and Arrays Yu Jian Cheng, 2018-09-03 Substrate Integrated Antennas and Arrays provides a single source for cutting edge information on substrate integrated circuits SICs substrate integrated waveguide SIW feeding networks SIW slot array antennas SIC traveling wave antennas SIW feeding antennas SIW monopulse antennas and SIW multibeam antennas Inspired by the author's extensive research this comprehensive book Describes a revolutionary SIC based antenna technique with the potential to replace existing antenna technologies Examines theoretical and experimental results connected to electrical and mechanical performance Explains how to overcome difficulties in meeting bandwidth gain and efficiency specifications Substrate Integrated Antennas and Arrays offers valuable insight into the state of the art of SIC and SIW antenna technologies presenting research useful to the development of wireless communication base station antennas portable microwave point to point systems collision avoidance radars conformal antennas and satellite antennas

Design and Applications of Active Integrated Antennas Mohammad S. Sharawi, Oualid Hammi, 2018-05-31 This comprehensive new resource guides professionals in the latest methods used when designing active integrated antennas AIA for wireless communication devices for various standards This book provides complete design procedures for the various elements of such active integrated antennas such as the matching network the amplifier active element as well as the antenna This book offers insight into how active integration and co design between the active components amplifier oscillator mixer diodes and the antenna can provide better power transfer higher gains increased efficiencies switched beam patterns and smaller design footprints It introduces the co design approach of active integrated antennas and its superior performance over conventional methods Complete design examples are given of active integrated antenna systems for narrow and wideband applications as well as for multiple input multiple output MIMO systems Readers find the latest design methods for narrow and broadband RF matching networks This book provides a complete listing of performance metrics for active integrated antennas The book serves as a complete reference and design guide in the area of AIA

Vehicle-to-Vehicle and Vehicle-to-Infrastructure Communications Fei Hu, 2018-02-20 This book focuses on the most critical technical aspects of vehicle to vehicle V2V and vehicle to infrastructure V2I communications It covers the smart city concept and architecture and explains how V2V and V2I fit into it It describes the wireless communication protocols for V2V and V2I It then explains the hardware design process for vehicle communication transceiver and antenna systems It explains next generation wireless technologies and their requirements for vehicle communication protocols Case studies provide the latest V2V and V2I commercial design details Finally it describes how to implement vehicle communication protocol from practical hardware design angle

Broadband Wireless Multimedia Networks Benny Bing, 2012-12-17 Provides a clear coherent review of all major wireless broadband standards with an emphasis on managing the explosive growth in mobile video 802.11ac and 802.16m 802.22 and LTE Advanced are the emerging broadband wireless standards that offer many powerful wireless features This book gives an accessible overview of the various standards and practical

information on 802.11 link adaptation 4G smartphone antenna design wireless video streaming and smart grids Broadband Wireless Multimedia Networks distills the many complex wireless features in a clean and concise manner so that the reader can understand the key principles Topics covered include adaptive modulation and coding orthogonal frequency division multiple access single carrier frequency division multiple access multiple antenna systems medium access control time and frequency division duplex transmission and the frame formats With wireless operators now carrying a much greater amount of video traffic than data and voice traffic the book also covers adaptive bit rate streaming and bandwidth management for 3D and HD video delivery to multi screen personal devices Featured chapters in the book are Overview of Broadband Wireless Networks IEEE 802.11 Standard IEEE 802.16 Standard Long Term Evolution ATSC Digital TV and IEEE 802.22 Standards Mesh Relay and Interworking Networks Wireless Video Streaming Green Communications in Wireless Home Area Networks Including over 180 chapter end exercises and 200 illustrative figures and accessible recorded tutorials Broadband Wireless Multimedia Networks is ideal for industry professionals and practitioners graduate students and researchers

Reconfigurable Circuits and Technologies for Smart Millimeter-Wave Systems Philippe Ferrari, Rolf Jakoby, Onur Hamza Karabey, Gustavo P. Rehder, Holger Maune, 2022-05-26 Describes the theory modeling and design of tunable mm wave circuits and systems using CMOS RF MEMS and microwave liquid crystals

Cooperative Radio Communications for Green Smart Environments Narcis Cardona, 2022-09-01 The demand for mobile connectivity is continuously increasing and by 2020 Mobile and Wireless Communications will serve not only very dense populations of mobile phones and nomadic computers but also the expected multiplicity of devices and sensors located in machines vehicles health systems and city infrastructures Future Mobile Networks are then faced with many new scenarios and use cases which will load the networks with different data traffic patterns in new or shared spectrum bands creating new specific requirements This book addresses both the techniques to model analyse and optimise the radio links and transmission systems in such scenarios together with the most advanced radio access resource management and mobile networking technologies This text summarises the work performed by more than 500 researchers from more than 120 institutions in Europe America and Asia from both academia and industries within the framework of the COST IC1004 Action on Cooperative Radio Communications for Green and Smart Environments The book will have appeal to graduates and researchers in the Radio Communications area and also to engineers working in the Wireless industry Topics discussed in this book include Radio waves propagation phenomena in diverse urban indoor vehicular and body environments Measurements characterization and modelling of radio channels beyond 4G networks Key issues in Vehicle V2X communication Wireless Body Area Networks including specific Radio Channel Models for WBANs Energy efficiency and resource management enhancements in Radio Access Networks Definitions and models for the virtualised and cloud RAN architectures Advances on feasible indoor localization and tracking techniques Recent findings and innovations in antenna systems for communications Physical Layer Network Coding for next

generation wireless systems Methods and techniques for MIMO Over the Air OTA testing **Advances in Computing, Communication, Automation and Biomedical Technology** M. G. Sumithra ,Arulmurugan Ramu ,Chow Chee Onn,2020-12-30 Advances in Computing Communication Automation and Biomedical Technology aims to bring together leading academic scientists researchers industry representatives postdoctoral fellows and research scholars around the world to share their knowledge and research expertise to advances in the areas of Computing Communication Electrical Civil Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of innovation *Handbook of Radar Signal Analysis* Bassem R. Mahafza,Scott C. Winton,Atef Z. Elsherbeni,2021-08-16 This new handbook on radar signal analysis adopts a deliberate and systematic approach It uses a clear and consistent level of delivery while maintaining strong and easy to follow mathematical details The emphasis of this book is on radar signal types and their relevant signal processing and not on radar systems hardware or components This handbook serves as a valuable reference to a wide range of audience More specifically college level students practicing radar engineers as well as casual readers of the subject are the intended target audience of the first few chapters of this book As the book chapters progress these grow in complexity and specificity Accordingly later chapters are intended for practicing engineers graduate college students and advanced readers Finally the last few chapters contain several special topics on radar systems that are both educational and scientifically entertaining to all readers The presentation of topics in this handbook takes the reader on a scientific journey whose major landmarks comprise the different radar subsystems and components In this context the chapters follow the radar signal along this journey from its birth to the end of its life Along the way the different relevant radar subsystems are analyzed and discussed in great detail The chapter contributors of this new handbook comprise experienced academia members and practicing radar engineers Their combined years of academic and real world experiences are in excess of 175 Together they bring a unique easy to follow mix of mathematical and practical presentations of the topics discussed in this book See the Chapter Contributors section to learn more about these individuals

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