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Microstrip and Printed Antennas

New Trends, Techniques
and Applications



 WILEY

Microstrip And Printed Antennas New Trends Techniques And Applications

Marcel A. Müller



Microstrip And Printed Antennas New Trends Techniques And Applications:

Microstrip and Printed Antennas Debatosh Guha, Yahia M. M. Antar, 2011-02-02 This book focuses on new techniques analysis applications and future trends of microstrip and printed antenna technologies with particular emphasis to recent advances from the last decade Attention is given to fundamental concepts and techniques their practical applications and the future scope of developments Several topics essayed as individual chapters include reconfigurable antenna ultra wideband UWB antenna reflectarrays antennas for RFID systems and also those for body area networks Also included are antennas using metamaterials and defected ground structures DGSs Essential aspects including advanced design analysis and optimization techniques based on the recent developments have also been addressed Key Features Addresses emerging hot topics of research and applications in microstrip and printed antennas Considers the fundamental concepts techniques applications and future scope of such technologies Discusses modern applications such as wireless base station to mobile handset satellite earth station to airborne communication systems radio frequency identification RFID to body area networks etc Contributions from highly regarded experts and pioneers from the US Europe and Asia This book provides a reference for R D researchers professors practicing engineers and scientists working in these fields Graduate students studying working on related subjects will find this book as a comprehensive literature for understanding the present and future trends in microstrip and printed antennas

Emerging Innovations in Microwave and Antenna Engineering Zbitou, Jamal, Errkik, Ahmed, 2018-10-12 Continuing advancements in electronics creates the possibility of communicating with more people at greater distances Such an evolution calls for more efficient techniques and designs in radio communications Emerging Innovations in Microwave and Antenna Engineering provides innovative insights into theoretical studies on propagation and microwave design of passive and active devices The content within this publication is separated into three sections the design of antennas the design of the antennas for the RFID system and the design of a new structure of microwave amplifier Highlighting topics including additive manufacturing technology design application and performance characteristics it is designed for engineers electricians researchers students and professionals and covers topics centered on modern antenna and microwave circuits design and theory

Antennas for Industrial and Medical Applications with Optimization Techniques for Wireless Communication S. Kannadhasan, R. Nagarajan, 2024-12-30 The text begins by covering the fundamental concepts and new advances in the field of antenna theory antenna hardware and propagation It further explains the designing of metamaterials microstrip patch antennas for medical applications photonic crystals of millimeter wave signals for 5G communications dual band miniaturized circular antennas for wireless networks and ultra thin compact flexible antennas for wearable applications This book Presents the design and development of S shaped and T shaped microstrip path antennas for industrial applications Highlights the use of W shaped and metamaterials microstrip patch antennas for medical applications Covers photonic crystals of millimeter wave signals for 5G communications

Showcases the importance of compact and wideband slot antenna for wireless communications Illustrates the design of an ultra thin compact flexible antenna for wearable applications It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering antenna design and microwave engineering

Advanced Intelligent Systems for Sustainable Development

(AI2SD'2019) Mostafa Ezziyyani, 2019-10-11 This proceedings book presents extended versions of papers on advanced intelligent systems for networks and system selected from the second edition of the International Conference on Advanced Intelligent Systems for Sustainable Development AI2SD 2019 which was held on 8-11 July 2019 in Marrakech Morocco The book explores a number of aspects of networks and systems design issues and focuses on the latest research developments in a number of areas including various aspects of modern networking such as smart networked systems network protocols and performance security and privacy mobile and wireless systems Internet of things artificial intelligence and expert systems and cloud computing as well as enabling technologies The book also examines the area of intelligence comprehensively examining a range of important topics like intelligent collaborative systems for work and learning security organization management and autonomic computing for intelligent networking and collaborative systems wireless and sensor systems for intelligent networking and collaborative systems data mining and knowledge management for intelligent networking and collaborative systems data for Internet of things and cloud computing Each chapter presents the state of the art in a specific topic as well as the results of research and laboratory experiments and successful applications The book is intended for academic and industry researchers and telecommunication network engineers wanting to gain insights into these areas particularly in the context of Industry 4.0

Defected Ground Structure (DGS) Based Antennas Debatosh

Guha, Chandrakanta Kumar, Sujoy Biswas, 2022-12-28 Defected Ground Structure DGS Based Antennas A unique exploration of critical topics in defected ground structures and their applications In Defected Ground Structure DGS Based Antennas Design Physics Engineering and Applications three distinguished authors deliver a comprehensive discussion of key topics related to defected ground structures DGSs and their applications to advanced antenna designs including microstrips arrays dielectric resonators PIFA and printed monopoles The book explores major advances in the technology that have occurred since 2006 as well as the fundamentals of the research in the subject It also presents future possibilities for new researchers to assist in the development of new studies and technologies for practicing engineers and developers Readers will discover A thorough introduction to the concept and evolution of defected ground structure based antennas In depth examinations of defected ground structures for printed antenna feeds Comprehensive discussions of the use of defected ground structures to control unwanted modes under a microstrip patch for reducing cross polarized radiation Enlightening descriptions of defected ground structures used to control mutual coupling in arrays and MIMO designs Perfect for students researchers and professionals with an interest in wireless communications Defected Ground Structure DGS Based Antennas Design

Physics Engineering and Applications will also earn a place in the libraries of engineers and scientists working in space exploration and defense organizations

Data Science and Communication Engineering Debajyoti Misra, Mithun Chakraborty, Debashis De, Rajkumar Buyya, 2025-09-26 The book presents selected papers from the International Conference on Data Science and Communication ICTDsC 2024 organized by the Department of Electronics and Communication Engineering and Department of Engineering Science and Humanities DESH Siliguri Institute of Technology India during 21-22 November 2024 in Siliguri India The book covers state of the art research insights on artificial intelligence machine learning big data data analytics cyber security and forensic network and mobile security advanced computing cloud computing quantum computing electronics system Internet of Things robotics and automations blockchain and software technology and digital technologies for future

Advances in Microstrip and Printed Antennas Kai Fong Lee, Wei Chen, 1997-06-23 Lee Antennas 044210 The latest research results and important topics driving the development of microstrip and printed antennas Keeping abreast of current research topics and results in a field as dynamic as microstrip and printed antennas is a challenge for graduate students researchers and practicing engineers alike theoretical and experimental advances since 1989 have quickly outdated existing literature on the subject This invaluable reference provides the latest information on conventional antenna topics comprehensive accounts of new research topics updated research results and summaries of future trends Advances in Microstrip and Printed Antennas is a comprehensive up to date presentation of the research that is propelling these antennas into an ever widening array of applications including potential uses in radar and communication systems Featuring contributions by leading researchers and supplemented with extensive illustrations this book Covers recent advances in probe fed and aperture coupled microstrip antennas microstrip arrays and dual and circularly polarized planar antennas Examines the development of CAD formulas for the rectangular patch Explores the potential for multifunction printed antennas new high temperature superconducting materials active microstrip antennas and tapered slot printed antennas Discusses the finite difference time domain method of analysis Examines competing dielectric resonator antenna technology Includes design data and an extensive bibliography

Microstrip Antenna James R. James, Jim R. James, Peter S. Hall, Colin Wood, 1981

TELSIKS, 2003

Electrical & Electronics Abstracts, 1997

IETE Technical Review, 2005

Japanese Technical Abstracts, 1988

Digest IEEE Antennas and Propagation Society. International Symposium, 1998

Japanese Technical Periodical Index, 1987

Annales des télécommunications, 1997

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

Analysis and Design of Integrated Circuit-Antenna Modules

K. C. Gupta, Peter S. Hall, 2000 With communications technologies rapidly expanding the traditional separation of electronic circuits and antenna systems design is no longer feasible This book covers various design approaches applicable to integrated circuit antenna modules with the goal of placing the antenna transmitter and receiver all on a single chip It emphasizes analysis and design involving the integration of circuit functions with radiating elements and addresses trends in systems miniaturization *International Aerospace Abstracts*, 1999 International Conference on Antennas and Propagation, 1993 *Sixth International Conference on Antennas and Propagation (ICAP 89)*, 4-7 April 1989, Venue, University of Warwick, Coventry, United Kingdom, 1989

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