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Journal

# **15 Microstrip Antenna International Journals Journal**

The fusion of AI and IoT enables

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the systems to be predictive, prescriptive, and autonomous, and this convergence has evolved the nature of emerging applications from being assisted to augmented, and ultimately to autonomous intelligence. This

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book discusses algorithmic applications in the field of machine learning and IoT with pertinent applications. It further discusses challenges and future directions in the machine learning area and develops understanding

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of its role in technology, in terms of IoT security issues. Pertinent applications described include speech recognition, medical diagnosis, optimizations, predictions, and security aspects. Features: Focuses on algorithmic

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and practical parts of the artificial intelligence approaches in IoT applications. Discusses supervised and unsupervised machine learning for IoT data and devices. Presents an overview of the different algorithms related to

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Machine learning and IoT. Covers practical case studies on industrial and smart home automation. Includes implementation of AI from case studies in personal and industrial IoT. This book aims at Researchers and Graduate

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students in Computer  
Engineering, Networking  
Communications, Information  
Science Engineering, and  
Electrical Engineering.

The conference on  
'Interdisciplinary Research in

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Technology and Management”  
was a bold experiment in  
deviating from the traditional  
approach of conferences which  
focus on a specific topic or theme.  
By attempting to bring diverse  
inter-related topics on a common



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platform, the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well. The

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spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy that these papers addressed many important and relevant concerns of the day. The book is a compilation of high-

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quality scientific papers presented at the 3rd International Conference on Computer & Communication Technologies (IC3T 2016). The individual papers address cutting-edge technologies and applications of

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soft computing, artificial intelligence and communication. In addition, a variety of further topics are discussed, which include data mining, machine intelligence, fuzzy computing, sensor networks, signal and image

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processing, human-computer interaction, web intelligence, etc. As such, it offers readers a valuable and unique resource. This volume contains 87 papers presented at FICTA 2014: Third International Conference on

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Frontiers in Intelligent Computing: Theory and Applications. The conference was held during 14-15, November, 2014 at Bhubaneswar, Odisha, India. This volume contains papers mainly focused on

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Network and Information  
Security, Grid Computing and  
Clod Computing, Cyber Security  
and Digital Forensics, Computer  
Vision, Signal, Image & Video  
Processing, Software Engineering  
in Multidisciplinary Domains and

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Ad-hoc and Wireless Sensor  
Networks.

Multifunctional MIMO Antennas:  
Fundamentals and Application  
Volume 2

Microstrip Antenna Design for  
Wireless Applications



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Emerging Materials and  
Advanced Designs for Wearable  
Antennas

Emerging Innovations in  
Microwave and Antenna  
Engineering

Smart Antennas: Recent Trends

in Design and Applications

***In the last fifty years, the Earth has experienced rapid changes in climate, increasingly severe droughts, rising seawater levels, seawater acidification, increased depletion of***

***groundwater reserves, and  
global rise of temperature.  
Green technologies for  
recycling waste, particularly  
electronic waste, which is  
increasing at an alarming  
rate, may be a potential  
solution to environmental***

***pollution. Divided into three sections, this book presents comprehensive information on green technologies. Section 1 presents innovations in green electronic technologies, Section 2 discusses recycling and waste management, and***

***Section 3 discusses innovation and economics in global green technologies.***

***The Wireless Power Transfer concept is continuously and rapidly evolving and new challenges arise every day. As a result of these rapid***

***changes, the need for up-to-date texts that address this growing field from an interdisciplinary perspective persists. This book, organized into ten chapters, presents interesting novel solutions in the exploitation of the near-***

***and far-field techniques of wireless power transfer that will be used in the near future, as well as a bird's eye view of some aspects related to an emerging technological area that will change our lives and will change the paradigm***

***of how we use electrical equipment. The book covers the theory and also the practical aspects of technology implementation in a way that is suitable for undergraduate and graduate-level students, as well as***



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***researchers and professional engineers.***

***This comprehensive resource presents antenna fundamentals balanced with the design of printed antennas. Over 70 antenna projects, along with design***

*Journal*  
**dimensions, design flows and  
antenna performance results  
are discussed, including  
antennas for wireless  
communication, 5G antennas  
and beamforming. Examples  
of smartphone antennas,  
MIMO antennas, aerospace**

***and satellite remote sensing  
array antennas, automotive  
antennas and radar systems  
and many more printed  
antennas for various  
applications are also included.  
These projects include design  
dimensions and parameters***

***that incorporate the various techniques used by industries and academia. This book is intended to serve as a practical microstrip and printed antenna design guide to cover various real-world applications. All Antenna***

*Journal*  
**projects discussed in this  
book are designed, analyzed  
and simulated using full-wave  
electromagnetic solvers.**

**Based on several years of the  
author's research in antenna  
design and development for  
RF and microwave**

***applications, this book offers an in-depth coverage of practical printed antenna design methodology for modern applications.***

***This book includes a set of rigorously reviewed world-class manuscripts addressing***

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***and detailing state-of-the-art  
research projects in the areas  
of Computer Science,  
Informatics, and Systems  
Sciences, and Engineering. It  
includes selected papers form  
the conference proceedings of  
the Ninth International Joint***

*Journal*  
**Conferences on Computer,  
Information, and Systems  
Sciences, and Engineering  
(CISSE 2013). Coverage  
includes topics in: Industrial  
Electronics, Technology &  
Automation,  
Telecommunications and**



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*Journal*  
**Networking, Systems,  
Computing Sciences and  
Software Engineering,  
Engineering Education,  
Instructional Technology,  
Assessment, and E-learning. •  
Provides the latest in a series  
of books growing out of the**

*Journal*  
**International Joint  
Conferences on Computer,  
Information, and Systems  
Sciences, and Engineering; •  
Includes chapters in the most  
advanced areas of Computing,  
Informatics, Systems  
Sciences, and Engineering; •**

***Accessible to a wide range of  
readership, including  
professors, researchers,  
practitioners and students.  
Computer Communication,  
Networking and Internet  
Security  
Antenna Design for***

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***Narrowband IoT: Design,  
Analysis, and Applications  
Advancement in Microstrip  
Antennas with Recent  
Applications  
IC4S 2021  
Electronic Systems and  
Intelligent Computing***

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*Journal*  
***Emerging Trends and  
Applications***

This book focuses on Internet of Things (IoT) and data mining for modern engineering and healthcare applications, recent technological advancements in microwave engineering and communication, and

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applicability of newly developed solid-state technologies in biomedical engineering and healthcare for day-to-day applications. The reader will be able to know the recent advancements in microwave engineering, including novel techniques in microwave antenna design and various aspects of

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microwave propagation. This book aims to showcase various aspects of communication, networking, data mining, computational biology, bioinformatics, biostatistics and machine learning. Day-to-day applicability of modern communication and networking technologies is a

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matter of prime concern. This book covers recent trends in solid-state technologies, VLSI and the applicability of modern electronic devices and biosensing devices in bioinformatics and smart healthcare. Furthermore, it showcases the modern optimization techniques in power



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system engineering and machine design and discusses the role of solid-state engineering in the development of modern electronic gadgets. Societal benefits of microwave technologies for smooth and hustle-free life are also majorly focused areas. This book will be of high interest to the researchers,

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academicians, scientists and industrialists as well who are involved in the role of IoT for modern engineering applications. Features: This book features Internet of Things (IoT) and data mining for modern engineering and healthcare applications, recent technological

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advancements in microwave engineering and communication, and applicability of newly developed solid-state technologies in biomedical engineering and smart healthcare technologies. It showcases the novel techniques in Internet of Things (IoT)-integrated microwave antenna

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design and various aspects of microwave communication. It highlights the role of Internet of Things (IoT) in various aspects of communication, networking, data mining, computational biology, bioinformatics, biostatistics and machine learning. It reviews the role of

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Internet of Things (IoT) in solid-state technologies and VLSI and the applicability of modern electronic devices in bioinformatics and healthcare. It highlights the role of Internet of Things (IoT) in power system engineering, optics, RF and microwave energy harvesting and

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smart biosensing technologies.

This book gives an in-depth account of GaAs, InP and SiGe, technologies and describes all the key techniques for the design of amplifiers, ranging from filters and data converters to image oscillators, mixers, switches, variable attenuators, phase shifters, integrated

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antennas and complete monolithic transceivers.

Antenna design and wireless communication has recently witnessed their fastest growth period ever in history, and these trends are likely to continue for the foreseeable future.

Due to recent advances in industrial

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applications as well as antenna, wireless communication, and 5G technology, we are witnessing a variety of developing and expanding new technologies. Compact and low-cost antennas are increasing the demand for ultra-wide bandwidth in next-generation (5G) wireless



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communication systems and the Internet of Things (IoT). Enabling the next generation of high-frequency communication, various methods have been introduced to achieve reliable high data rate communication links and enhance the directivity of planar antennas. 5G technology can be used

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in many applications, such as in smart city applications and in smartphones. This technology can satisfy the fast rise in user and traffic capacity in mobile broadband communications. Therefore, different planar antennas with intelligent beamforming capability play an important role in these areas.

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The purpose of this book is to present the advanced technology, developments, and challenges in antennas for next-generation antenna communication systems. This book covers advances in next-generation antenna design and application domain in all related areas. It is a

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detailed overview of cutting-edge developments and other emerging topics and their applications in all areas of engineering that have achieved great accuracy and performance with the help of the advancement and challenges in next generation antennas. Whether a

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refresher for veteran engineers hoping to stay abreast of the latest advances and developing concepts in the field, an introduction to new engineers moving into the field, or a textbook for students and faculty, this groundbreaking new volume is a must-have for any library.

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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-

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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

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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, filtennas, and various reconfigurable



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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

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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

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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

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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.

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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

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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

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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,

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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



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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

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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. Wireless Communication with Artificial Intelligence

Proceedings of IC3T 2016

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Innovation in Global Green  
Technologies 2020

Internet of Things and Data Mining for  
Modern Engineering and Healthcare  
Applications

ANTENNAS AND WAVE  
PROPAGATION

Selected Articles from iM3F 2021,

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*Bendable wearable materials like conductive strands, fluid metallic mixes, and polymer in paper are generally utilized as a part of the current adaptable*

*electronic gadgets. Extra necessities are implemented in wearable applications. Characteristic elastic, for example, is an appealing exchange adaptable material that is biocompatible and*

*offers high conductivity, low cost, simplicity to make, and most importantly, it is water/climate safe and condition amicable. The wearable antenna is one of the key components to*

*establish body area network (BAN) for wireless communication, which is why it has become such an important part of antenna research. Wearable antennas are being applied*

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*successfully in various parts of life such as health monitoring, physical training, navigation, RFID, medicine, military, and more. Emerging Materials and Advanced Designs for*



*Wearable Antennas explores how wearable antenna technology is being employed to enhance the quality of life in various industries. The technologies implemented and success of*

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Journal

*these antenna technologies is essential in the emerging field of wearable computing and is discussed in detail within the contents of this book. While covering essential topics such as the*

*optimization of antenna  
material, improvement in  
flexible antenna  
performance, synthesis and  
design aspects of antennas,  
and transmission and  
receiving of the bendable*

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*antenna, this book is ideal  
for the military field,  
scientists, the medical field,  
practitioners, stakeholders,  
researchers, academicians,  
and students looking for the  
most advanced and updated*

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*research on the technology  
and implementation of  
wearable antennas spanning  
multiple industries.*

*This book offers an up-to-  
date and comprehensive  
review of modern antenna*

*systems and their applications in the fields of contemporary wireless systems. It constitutes a useful resource of new material, including stochastic versus ray tracing*

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*wireless channel modeling  
for 5G and V2X applications  
and implantable devices.  
Chapters discuss modern  
metalens antennas in  
microwaves, terahertz, and  
optical domain. Moreover,*

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*the book presents new material on antenna arrays for 5G massive MIMO beamforming. Finally, it discusses new methods, devices, and technologies to enhance the performance of*



*antenna systems.*

*The latest trends in  
Information Technology  
represent a new intellectual  
paradigm for scientific  
exploration and visualization  
of scientific phenomena. The*

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Journal

*present treatise covers  
almost all the emerging  
technologies in the field.  
Academicians, engineers,  
industrialists, scientists and  
researchers engaged in  
teaching, research and*

*development of Computer  
Science and Information  
Technology will find the  
book useful for their future  
academic and research  
work. The present treatise  
comprising 225 articles*

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Journal

*broadly covers the following  
topics exhaustively. 01.*

*Advance Networking and  
Security/Wireless*

*Networking/Cyber Laws 02.*

*Advance Software*

*Computing 03. Artificial*

Journal

*Intelligence/Natural*

*Language Processing/*

*Neural Networks 04.*

*Bioinformatics/Biometrics*

*05. Data Mining/E-*

*Commerce/E-Learning 06.*

*Image Processing, Content*

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*Journal*  
*Based Image Retrieval,*  
*Medical and Bio-Medical*  
*Imaging, Wavelets 07.*  
*Information*  
*Processing/Audio and Text*  
*Processing/Cryptology,*  
*Steganography and Digital*

*Journal*  
*Watermarking 08. Pattern  
Recognition/Machine  
Vision/Image Motion, Video  
Processing 09. Signal  
Processing and  
Communication/Remote  
Sensing 10. Speech*

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*Journal  
Processing & Recognition,  
Human Computer  
Interaction 11. Information  
and Communication  
Technology  
Due to progress in the  
development of*



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*communication systems, it is now possible to develop low-cost wearable communication systems. A wearable antenna is meant to be a part of the clothing or close to the body and*

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*used for communication purposes, which include tracking and navigation, mobile computing and public safety. Examples include smartwatches (with integrated Bluetooth*

*antennas), glasses (such as Google Glass with Wi-Fi and GPS antennas), GoPro action cameras (with Wi-Fi and Bluetooth antennas), etc. They are increasingly common in consumer*

*electronics and for  
healthcare and medical  
applications. However, the  
development of compact,  
efficient wearable antennas  
is one of the major  
challenges in the*

*development of wearable communication and medical systems. Technologies such as printed compact antennas and miniaturization techniques have been developed to create*

*efficient, small wearable antennas which are the main objective of this book. Each chapter covers enough mathematical detail and explanations to enable electrical, electromagnetic*

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*and biomedical engineers  
and students and scientists  
from all areas to follow and  
understand the topics  
presented. New topics and  
design methods are  
presented for the first time*

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*in the area of wearable  
antennas, metamaterial  
antennas and fractal  
antennas. The book covers  
wearable antennas, RF  
measurements techniques  
and measured results in the*



*vicinity of the human body, setups and design considerations. The wearable antennas and devices presented in this book were analyzed by using HFSS and ADS 3D full-wave*

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*electromagnetics software.  
Explores wearable medical  
systems and antennas  
Explains the design and  
development of wearable  
communication systems  
Explores wearable*

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Journal

*reconfigurable antennas for  
communication and medical  
applications Discusses new  
types of metamaterial  
antennas and artificial  
magnetic conductors (AMC)  
Reviews textile antennas Dr.*

*Albert Sabban holds a PhD  
in Electrical Engineering  
from the University of  
Colorado at Boulder, USA  
(1991), and an MBA from  
the Faculty of Management,  
Haifa University, Israel*

*(2005). He is currently a Senior Lecturer and researcher at the Department of Electrical and Electronic Engineering at Kinneret and Ort Braude Engineering Colleges.*

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*RFIC and MMIC Design and  
Technology*

*Design and Applications*

*Fundamentals and*

*Applications*

*Volume 4, July 2013*

*Interdisciplinary Research in*

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*Journal  
Technology and  
Management  
New Trends in Networking,  
Computing, E-learning,  
Systems Sciences, and  
Engineering*

Printed antennas have

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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



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book covers theory, design techniques, and the chronological regression of the printed antennas for various applications. This book will provide readers with the basic

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conceptual knowledge about antennas along with advanced techniques for antenna design. It covers a variety of analytical techniques and their CAD applications and discusses

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new applications of printed antenna technology such as sensing. The authors also present special reconfigurable antennas such as ME dipole, polarization,

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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

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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:

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Covers a variety of  
analytical techniques and  
their CAD applications  
Discusses new applications  
of printed antenna  
technology such as sensing  
Examines the state of

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design techniques of  
printed antenna Presents  
special reconfigurable  
antennas such as ME  
dipole, polarization,  
feeding, and DGS  
In internet of things

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(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.



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Journal  
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

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on the antenna geometry  
but on immediate  
surroundings.

Additionally, the IoT  
product itself and the  
user of the product can  
strongly affect the

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resulting radiation pattern and other characteristics of the antenna. On the other hand, a suitable antenna should also have high efficiency and adequate

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Journal  
bandwidth covering the  
desired frequency range.  
To take these effects into  
consideration, the whole  
IoT product must be  
included in the antenna  
simulations. Antenna

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Journal  
Design for Narrowband IoT:  
Design, Analysis, and  
Applications provides the  
antenna design concept for  
narrowband internet of  
things applications,  
performs a detailed

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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

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Journal  
book is ideal for industry professionals, research scholars, academicians, professors, and students. This book focuses on recent advances in the field of microstrip

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antenna design and its applications in various fields including space communication, mobile communication, wireless communication, medical implants and wearable



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Journal  
applications. Scholars as well as researchers and those in the electronics/electrical/instrumentation engineering fields will benefit from this book.

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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

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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

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Journal  
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

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a few. FEATURES Addresses the complete functional framework workflow in printed antenna design systems Explores the basic and high-level concepts, including advanced aspects

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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

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antennas in terms of structure, defected ground, MIMO and fractal designs Discusses case studies related to data-intensive technologies in microchip antennas in

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terms of the most recent  
applications and similar  
uses for the Internet of  
Things and device-to-  
device communication  
Today, computer science  
engineering and



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telecommunications are two important areas linked and even inseparable. This is obvious for the user who connects the modem of his computer on his mobile phone or telephone line to

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access, via the global data network, the information available on the servers. The both domains are evolving rapidly and the development of new

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architectures of systems  
dedicated to  
telecommunications and  
computing becomes  
essential. Especially,  
wireless transmission  
systems with high data

rate. Two parts of these systems should be developed software and hardware. Another area that is renewable energies becomes more attractive for researchers in order

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to develop new conversion systems with good performances, and a good optimization of energy. For example, in wireless sensor systems, we try to develop new protocols

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permitting to have a good  
autonomy in terms of  
energy.

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International Conference  
on Interdisciplinary  
Research in Technology and  
Management (IRTM, 2021),  
26-28 February, 2021,  
Kolkata, India  
Proceedings of ICICCD 2017



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This reference provides the reader with focused information about microstrip antenna design and applications. Readers are first introduced to the basic design of microstrip

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antennas. Subsequent chapters explain how microstrip antennas are suitable for practical applications. These chapters cover topics such as fractal and defected ground structure antennas,

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microstrip antenna evaluation, and the use of microstrip antennas in mobile communications and IoT applications. Scholars, researchers, and industrial professionals involved in the fields of electronics

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and electrical engineering as well as instrumentation will benefit from the information given in this book.

The book discusses basic and advanced concepts of microstrip antennas,

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including design procedure  
and recent applications.  
Book topics include  
discussion of arrays,  
spectral domain, high Tc  
superconducting microstrip  
antennas, optimization,  
multiband, dual and circular

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polarization, microstrip to waveguide transitions, and improving bandwidth and resonance frequency. Antenna synthesis, materials, microstrip circuits, spectral domain, waveform evaluation, aperture coupled



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antenna geometry and miniaturization are further book topics. Planar UWB antennas are widely covered and new dual polarized UWB antennas are newly introduced. Design of UWB antennas with single or

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multi notch bands are also considered. Recent applications such as, cognitive radio, reconfigurable antennas, wearable antennas, and flexible antennas are presented. The book audience

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will be comprised of electrical and computer engineers and other scientists well versed in microstrip antenna technology.

The book focuses on the integration of intelligent

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communication systems,  
control systems, and devices  
related to all aspects of  
engineering and sciences. It  
contains high-quality  
research papers presented at  
the 2nd international  
conference, ICICCD 2017,

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organized by the Department  
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Petroleum and Energy  
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16 April, 2017. The volume  
broadly covers recent

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advances of intelligent communication, intelligent control and intelligent devices. The work presented in this book is original research work, findings and practical development experiences of researchers,

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academicians, scientists and  
industrial practitioners.

Proceedings of the 3rd  
International Conference on  
Frontiers of Intelligent  
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Applications (FICTA) 2014  
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Advances and Challenges

Band-Notch Characteristics

in Ultra-Wideband Antennas

Microstrip Antennas



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This book presents part of the iM3F 2021 proceedings from the mechatronics track. It highlights key challenges and recent trends in mechatronics

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engineering and  
technology that are non-  
trivial in the age of  
Industry 4.0. It  
discusses traditional as  
well as modern solutions  
that are employed in the

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multitude spectra of mechatronics-based applications. The readers are expected to gain an insightful view on the current trends, issues, mitigating

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factors as well as solutions from this book.

Continuing advancements in electronics creates the possibility of communicating with more

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people at greater distances. Such an evolution calls for more efficient techniques and designs in radio communications. Emerging Innovations in Microwave

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and Antenna Engineering  
provides innovative  
insights into  
theoretical studies on  
propagation and  
microwave design of  
passive and active

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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

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design of a new  
structure of microwave  
amplifier. Highlighting  
topics including  
additive manufacturing  
technology, design  
application, and



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performance

characteristics, it is  
designed for engineers,  
electricians,  
researchers, students,  
and professionals, and  
covers topics centered

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on modern antenna and  
microwave circuits  
design and theory.  
This reference text  
discusses advances in  
wireless communication,  
design challenges, and

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future research  
directions to design  
reliable wireless  
communication. The text  
discusses emerging  
technologies including  
wireless sensor

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networks, Internet of  
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radios (CR), visible  
light communication  
(VLC), wireless optical

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communication, signal processing, and channel modeling. The text covers artificial intelligence-based applications in wireless communication, machine

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learning techniques and  
challenges in wireless  
sensor networks, and  
deep learning for  
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estimation during  
optical wireless

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communication. The text will be useful for senior undergraduate, graduate students, and professionals in the fields of electrical engineering, and

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electronics and  
communication  
engineering.

In the last 40 years,  
the microstrip antenna  
has been developed for  
many communication



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systems such as radars,  
sensors, wireless,  
satellite, broadcasting,  
ultra-wideband, radio  
frequency  
identifications (RFIDs),  
reader devices etc. The

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progress in modern wireless communication systems has dramatically increased the demand for microstrip antennas. In this book some recent advances in microstrip

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antennas are presented.

Next-Generation Antennas

PCCDS 2020

ICCWCS 2019

Third International

Conference on Computing

and Wireless

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Communication Systems,  
ICCWCS 2019, April  
24-25, 2019, Faculty of  
Sciences, Ibn Tofaïl  
University -Kénitra-  
Morocco

Theory and Design

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Advances in Computer  
Vision and Information  
Technology

*INTERNATIONAL WORKSHOPS (at  
IAREC'17) (This book includes  
English (main) and Turkish  
languages) International Workshop*

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*The book presents high-quality  
research papers presented at 4th  
International Conference on*

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*Intelligent Computing and Advances  
in Communication (ICAC 2021)  
organized by Siksha 'O' Anusandhan,  
Deemed to be University,  
Bhubaneswar, Odisha, India, in  
November 2021. This book brings out  
the new advances and research*

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*results in the fields of theoretical, experimental, and applied signal and image processing, soft computing, networking, and antenna research. Moreover, it provides a comprehensive and systematic reference on the range of alternative*

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*conversion processes and  
technologies.*

*The main objective of this book is to  
present novel radio frequency (RF)  
antennas for 5G, IOT, and medical  
applications. The book is divided into  
four sections that present the main*

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*topics of radio frequency antennas.  
The rapid growth in development of  
cellular wireless communication  
systems over the last twenty years has  
resulted in most of world population  
owning smartphones, smart watches, I-  
pads, and other RF communication*

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*devices. Efficient compact wideband antennas are crucial in RF communication devices. This book presents information on planar antennas, cavity antennas, Vivaldi antennas, phased arrays, MIMO antennas, beamforming phased array*



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*reconfigurable Fabry-Perot cavity  
antennas, and time modulated linear  
array.*

*This book presents a comprehensive  
approach to antenna designs for  
various applications, including 5G  
communication, the internet of things*

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*(IoT), and wearable devices. It discusses models, designs, and developments of MIMO antennas, antenna performance measurement, 5G communication challenges and opportunities, and MIMO antennas for LTE/ISM applications. It covers*

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*important topics including mmWave antennas, antenna arrays for MIMO applications, reconfigurable/band-notched MIMO antennas, multiband MIMO antennas, wideband MIMO antennas, and fractal-based compact multiband hybrid antennas.*

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*FEATURES Discusses antenna design optimization techniques in detail Covers MIMO antenna performance measurement, multiband MIMO antennas, and wideband MIMO antennas Discusses modeling, simulation, and specific absorption*

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*rate (SAR) analysis of antennas*

*Provides applications including radio-frequency identification (RFID),*

*wearable antennas, and antennas for IoT Multifunctional MIMO Antennas:*

*Fundamentals and Application is*

*useful for undergraduate and*

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*graduate students and academic  
researchers in areas including  
electrical engineering, electronics, and  
communication engineering.*

*ICMEET 2016*

*Proceedings of ESIC 2021*

*Wearable Systems and Antennas*

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*Technologies for 5G, IOT and  
Medical Systems*

*Green Engineering and Technology*

*Machine Learning and IoT for  
Intelligent Systems and Smart*

*Applications*

*International Advanced Researches &*

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*Engineering Congress 2017*

*Proceeding Book*

Escalating urbanization and energy consumption have increased the demand for green engineering solutions and intelligent systems to mitigate environmental hazards and



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offer a more sustainable future. Green engineering technologies help to create sustainable, eco-friendly designs and solutions with the aid of updated tools, methods, designs, and innovations. These technologies play a significant role

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in optimizing sustainability in various areas of energy, agriculture, waste management, and bioremediation and include green computing and artificial intelligence (AI) applications. Green Engineering and Technology:

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Innovations, Design, and Architectural Implementation examines the most recent advancements in green technology, across multiple industries, and outlines the opportunities of emerging and future innovations, as

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well as practical real-world implementation. Features: Provides different models capable of fulfilling the criteria of energy efficiency, health and safety, renewable resources, and more Examines recycling, waste management, and

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bioremediation techniques as well  
as waste-to-energy technologies  
Presents business cases for  
adopting green technologies  
including electronics,  
manufacturing, and infrastructure  
projects Reviews green

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technologies for applications such as energy production, building construction, transportation, and industrialization Green Engineering and Technology: Innovations, Design, and Architectural Implementation serves as a useful

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and practical guide for practicing engineers, researchers, and students alike.

The book is a collection of best papers presented in the Second International Conference on Microelectronics Electromagnetics

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and Telecommunication (ICMEET 2016), an international colloquium, which aims to bring together academic scientists, researchers and research scholars to discuss the recent developments and future trends in the fields of



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microelectronics, electromagnetics  
and telecommunication.

Microelectronics research  
investigates semiconductor  
materials and device physics for  
developing electronic devices and  
integrated circuits with data/energy

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efficient performance in terms of speed, power consumption, and functionality. The book discusses various topics like analog, digital and mixed signal circuits, bio-medical circuits and systems, RF circuit design, microwave and

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millimeter wave circuits, green  
circuits and systems, analog and  
digital signal processing, nano  
electronics and giga scale systems,  
VLSI circuits and systems, SoC and  
NoC, MEMS and NEMS, VLSI  
digital signal processing, wireless

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communications, cognitive radio,  
and data communication.

The progress in modern tiny  
multifunctional wireless devices has  
dramatically increased the demand  
for microstrip antennas in recent  
years. Furthermore, in the last few

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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

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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

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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

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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 books main



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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

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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.

This book, now in its Second

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Edition, is primarily intended for the undergraduate and postgraduate students of electronics and communication, electronics and electrical and telecommunication engineering. It provides a thorough understanding of the fundamentals

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and applications of the subject. The edition discusses the properties of several types of antennas such as dipoles, loop, Yagi-Uda, log-periodic, slot/DRA and microstrip antennas and also explains the phenomenon of wave propagation

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with emphasis on theory of operation and design procedures. It provides a comprehension of the principles of radiation and methods of excitation. The book also focuses on antenna measurements along with necessary requirements and

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different methods of measurement. Written in an easy-to-understand manner, the text includes several illustrative examples. A large number of solved examples and exercise problems with varying difficulty levels are included to

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reinforce the theoretical understanding of concepts. The book also contains several objective-type questions in each chapter along with a Question Bank at the end of the book. The Appendices provide a rich source of

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Research (IJTIR)  
Antenna Systems  
Microstrip and Printed Antennas:  
Applications-Based Designs

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This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology,

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Kurukshetra, India, during 1-3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in

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computation algorithm,  
communication and data sciences,  
intertwined with each other for  
efficiency.

This comprehensive reference text  
discusses fundamental concepts,  
applications, design techniques,

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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

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communication, wireless communication, and wearable applications. This resource presents planar antenna design concepts, methods, and techniques to enhance the performance parameters and applications for

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IoT's 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



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

Trends in Research on  
Planar Antennas

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Enabling Industry 4.0 through  
Advances in Mechatronics  
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