

# Read Book 15 Microstrip Antenna International Journals Journal Pdf For Free

Digest Jun 19 2022

*Printed Antennas* Mar 04 2021 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

*Recent Trends in Intensive Computing* Jan 22 2020 In a world where computer science is now an essential element in all of our lives, a new opportunity to disseminate the latest research and trends is always welcome. This book presents the proceedings of the first International Conference on Recent Trends in Computing (ICRTC 2021), which was held as a virtual event on 21 – 22 May 2021 at Sanjivani College of Engineering, Kopargaon, India due to the restrictions of the COVID-19 pandemic. This online conference, aimed at facilitating academic exchange among researchers, enabled experts and scholars around from around the globe to gather for the discussion of the latest advanced research in the field despite the extensive travel restrictions still in place. The book contains 134 papers selected from 329 submitted papers after a rigorous peer-review process, and topics covered include advanced computing, networking, informatics, security and privacy, and other related fields. The book will be of interest to all those eager to find the latest trends and most recent developments in computer science.

*Proceedings of International Conference on Wireless Communication* Jul 08 2021 The volume comprises best selected papers presented at

International Conference on Wireless Communication (ICWiCOM) which is organized by Department of Electronics and Telecommunication Engineering of D J Sanghvi College of Engineering. The volume focusses on narrowed topics of wireless communication like signal and image processing applicable to wireless domain, networking, microwave and antenna designs, tele-medicine systems, etc. The papers are divided into three main domains like, networking, antenna designs and embedded systems applicable to the communication domain. The content will be helpful for Post-Graduate and Doctoral students in their research.

*Printed Antennas* Aug 29 2020 This collection covers different printed microstrip antenna designs, from rectangular to circular, broadband, dual-band, and millimeter-wave microstrip antennas to microstrip arrays. It further presents a new analysis of the rectangular and circular microstrip antenna efficiency and surface wave phenomena. The book Covers the latest advances and applications of microstrip antennas Discusses methods and techniques used for the enhancement of the performance parameters of the microstrip antenna Presents low-power wide area network (LPWAN) proximity-coupled antenna for Internet of Things applications. Highlights a new analysis of rectangular and circular microstrip antenna efficiency and surface wave phenomena. Showcases implantable antennas, H-shaped antennas, and wideband implantable antennas for biomedical applications Printed Antennas discusses the latest advances such as the Internet of Things for antenna applications, device-to-device communication, satellite communication, and wearable textile antenna in the field of communication. It further presents methods and techniques used for the enhancement of the performance parameters of the microstrip antenna and covers the design of conformal and miniaturized antenna structures for various applications. It will serve as an ideal reference text for senior undergraduates, graduate students, and researchers in fields including electrical engineering, electronics and communications engineering, and computer engineering.

*New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering* Jan 14 2022 This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Informatics, and Systems Sciences, and Engineering. It includes selected papers from the conference proceedings of the Ninth International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2013). Coverage includes topics in: Industrial Electronics, Technology & Automation, Telecommunications and 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 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.

**Broadband Patch Antennas** Mar 24 2020 This book describes both theoretical and practical aspects of advanced broadband patch antennas, providing a comprehensive review of the state of the art in the field. Modern antenna techniques are discussed for single patches, dual linear and circular polarizations designs, and arrays used in mobile communications. Includes 88 equations, 115 figures, and 200 references.

**Handbook of Microstrip Antennas** Feb 15 2022 The book reviews developments in the following fields: circular microstrip antennas; microstrip patch antennas; circular polarisation and bandwidth; microstrip dipoles; multilayer and parasitic configurations; wideband flat dipole and short-circuit microstrip patch elements and arrays; numerical analysis; multiport network approach; transmission-line model; rectangular microstrip antennas; low-cost printed antennas; printed phased-array antennas; circularly polarised antenna arrays; microstrip antenna feeds; substrate technology; computer-aided design of microstrip and triplate circuits; resonant microstrip antenna elements and arrays for aerospace applications; mobile and satellite systems; conical conformal microstrip tracking antenna; and microstrip field diagnostics.

**Microstrip Patch Antennas: A Designer's Guide** Dec 25 2022 This useful tool provides the reader with a current overview of where microstrip patch antenna technology is at, and useful information on how to design this form of radiator for their given application and scenario. Practical design cases are provided for each goal.

**Frequency-Agile Antennas for Wireless Communications** Jul 28 2020 Mobile data subscriptions are expected to more than double and mobile wireless traffic to increase by more than tenfold over the next few years. Proliferation of smart phones, tablets, and other portable devices are placing greater demands for services such as web browsing, global positioning, video streaming, and video telephony. Many of the proposed solutions to deal with these demands will have a significant impact on antenna designs. Antennas with frequency agility are considered a promising technology to help implement these new solutions. This book provides readers with a sense of the capabilities of frequency-agile antennas (FAAs), the widely diverse methods for achieving tunability, the current achievable performance, and the challenges still facing FAA designs. This resource explores the many aspects of FAAs, including an examination of the metrics used to evaluate their performance, a review of the most commonly used antenna elements, an in-depth look at the wide variety of mechanisms for achieving tunability, and a comprehensive survey of

diverse examples of FAA designs. The focus is on FAAs for wireless mobile communications with applications including handsets, laptops, wireless machine-to-machine communications, as well as larger, fixed designs such as cellular base station antennas.

CAD of Microstrip Antennas for Wireless Applications Nov 12 2021  
Increasing demand for commercial applications requiring small, low-cost, easy-to-use RF/microwave systems is driving innovations in antenna technology. This "how-to" book explains why microstrip antennas are the solution for the future.

Microstrip Antenna Aug 21 2022 In the past few years, the concept of creating microwave antennas using microstrip has attracted increasing attention and viable practical designs are now emerging. The purpose of this monograph is to present the reader with an appreciation of the underlying physical action, up-to-date theoretical treatments, useful antenna design approaches and the overall state-of-the-art situation. The emphasis is on antenna engineering design, but to achieve this goal it has been necessary to delve into the behaviour of microstrip in a much wider sense and also include aspects of electromagnetic analysis. As a consequence, the monograph will also be of interest to microstrip circuit designers and to some extent those seeking electromagnetic problems of a challenging nature. The astronomical progress in miniaturising and integrating electronic circuits in the past decade has recently created a positive demand for a new generation of antenna systems. In principle, microstrip antennas are thin planar configurations that are lightweight, low cost, easy to manufacture and can be made conformal with the surfaces of vehicles, missiles etc. The compatibility of microstrip antennas with integrated electronics is another great advantage. However, the microstrip wavetrapping effects inhibit the radiation mechanism and must be taken into account in antenna design. Wave-trapping effects in substrates involve the study of surface waves and discontinuities in open waveguide structures. The microstrip antenna designer must therefore encompass many more effects than previously considered by microstrip circuit designers. It is for these reasons that the scope of this monograph is necessarily somewhat wider than the title may suggest. The ten chapters are a blend of introductory, practical and theoretical treatments and likely future developments are also highlighted. A good selection of past and current references are given and each chapter concludes with a helpful summary comment.

Theory and Applications of Applied Electromagnetics Dec 01 2020 In this book, experts from academia and industry present the latest advances in scientific theory relating to applied electromagnetics and examine current and emerging applications particularly within the fields of electronics, communications, and computer technology. The book is based on presentations delivered at APPEIC 2014, the 1st Applied Electromagnetic International Conference, held in Bandung,

Indonesia in December 2014. The conference provided an ideal platform for researchers and specialists to deliver both theoretically and practically oriented contributions on a wide range of topics relevant to the theme of nurturing applied electromagnetics for human technology. Many novel aspects were addressed, and the contributions selected for this book highlight the relevance of advances in applied electromagnetics to a variety of industrial engineering problems and identify exciting future directions for research.

Planar Antennas Jun 07 2021 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.

Proceedings of International Conference on Wireless Communication Jun 26 2020 The book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM), which is organized by D. J. Sanghvi College of Engineering's Department of Electronics and Telecommunication Engineering. The book focuses on specific topics of wireless communication, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems. Covering three main areas – networking, antenna designs and embedded systems applicable to communication – it is a valuable resource for postgraduate and doctoral students.

Handbook of Microstrip Antennas Feb 27 2023 The following topics are dealt with: circular microstrip antennas; microstrip patch antennas; frequency agility; antenna bandwidth; circular polarisation; microstrip dipoles; multilayer; parasitic configurations; microstrip patch elements and arrays; numerical analysis; multiport network approach; transmission line model; antenna design and technology; microstrip antenna feeds; advances in substrate technology; computer aided design; special measurement techniques; and applications

Microstrip Antennas Oct 11 2021 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.

**Millimeter-wave Microstrip and Printed Circuit Antennas Feb 21 2020**  
Provides information needed to design millimeter-wave microstrip and printed circuit antennas from analysis methods and materials selection to antennas for particular applications. Special focus is given to the issues that impact the ability to scale microwave frequency designs to the millimeter-wave

**Smart Antennas Sep 22 2022** This book presents the latest techniques for the design of antenna, focusing specifically on the microstrip antenna. The authors discuss antenna structure, defected ground, MIMO, and fractal design. The book provides the design of microstrip antenna in terms of latest applications and uses in areas like IoT and device-to-device communication. The book also provides the current methods and techniques used for the enhancement of the performance parameters of the microstrip antenna. Chapters enhance the knowledge and skills of students and researchers in the latest in the communications world like IoT, D2D, satellite, wearable devices etc. The authors discuss applications such as microwave imaging, medical implants, hyperthermia treatments, and wireless wellness monitoring and how a decrease in size of antenna help facilitate application potential. Provides the latest techniques used for the design of antenna in terms of its structure, defected ground, MIMO and fractal design; Outlines steps to resolve issues with designing antenna, including the latest design and design parameters for microstrip antenna; Presents the design of conformal and miniaturized antenna structures for various applications.

**Advances in Fire and Process Safety Apr 24 2020** This book presents the proceedings of the International Conference on Health, Safety,

**Fire, Environment, and Allied Sciences (HSFEA 2016).** The book highlights the latest developments in the field of science and technology aimed at improving health and safety in the workplace. The volume comprises content from leading scientists, engineers, and policy makers. The papers included in this volume look at identifying the limitations of the existing approaches and open new avenues for future research. The book also looks at the accident and work-health records, specifically in Asian countries, and discusses measures to improve the Asian standards and implementation issues with regards to workplace health and safety. The contents of this volume will be of interest to researchers, practitioners, and policy makers alike.

***Advances in Computer Vision and Information Technology* Aug 09 2021** The latest trends in information technology represent a new intellectual paradigm for scientific exploration and the visualization of scientific phenomena. This title covers the emerging technologies in the field. Academics, engineers, industrialists, scientists and researchers engaged in teaching, and research and development of computer science and information technology will find the book useful for their academic and research work.

***Omnidirectional Slots Antenna* Dec 21 2019** Omnidirectional antenna with high gain, low profile, vertical polarization, even CP polarization is very difficult to design, although it is from the dipole. In this book, a novel idea that the running wave in the coaxial wire is disturbed by the orthogonal slot array on the cylindrical metal shell is introduced, which radiates the CP wave in omni-direction. When feeding on two ends of the coaxial wire respectively, there will appear left hand circularly polarized (LHCP) omnidirectional radiation or right hand circularly polarized (RHCP) omnidirectional radiation. By introducing the T-shaped feed structure, the coaxial wire with slot array can conveniently produce the LHCP and RHCP radiation diversity with one end feeding. In the further, combining with the directional antenna, it will generate the pattern diversity in the half-sphere space. The antenna of the coaxial wire with slot array can further transform into conical CP beam antenna if the coaxial wire becomes into a conical frustum. By introducing the PIN diode into the slot, the antenna of the coaxial wire with slot array can radiate the reconfigurable directional beam by switching the states of the PIN diodes. By introducing a novel switchable microwave circuit, the omnidirectional /directional pattern switchable antenna can be realized easily. This book proposes a continues method to develop the potentialities of the omnidirectional antenna. And the readers can study the method or ideas of the omnidirectional slots antenna, even graft the CP or diversity methods to other antennae.

***Antenna Design for Narrowband IoT: Design, Analysis, and Applications* Apr 05 2021** In internet of things (IoT) applications,

wireless connectivity is a key factor, particularly those that need to be in transition, or where wired communication is not effective or practicable. For top-notch connectivity of the Narrowband IoT (NB-IoT) standard, the 900MHz frequency is generally used by most of the vendors. The radiation quality not only depends on the antenna geometry but on immediate surroundings. Additionally, the IoT product itself and the user of the product can strongly affect the resulting radiation pattern and other characteristics of the antenna. On the other hand, a suitable antenna should also have high efficiency and adequate bandwidth covering the desired frequency range. To take these effects into consideration, the whole IoT product must be included in the antenna simulations. *Antenna Design for Narrowband IoT: Design, Analysis, and Applications* provides the antenna design concept for narrowband internet of things applications, performs a detailed analysis of the antenna, and discusses the various antenna design concepts and structures. Covering a range of topics such as antenna design and antenna measurement systems, this book is ideal for industry professionals, research scholars, academicians, professors, and students.

Smart Antennas: Recent Trends in Design and Applications Dec 13 2021  
This reference provides the reader with focused information about microstrip antenna design and applications. Readers are first introduced to the basic design of microstrip antennas. Subsequent chapters explain how microstrip antennas are suitable for practical applications. These chapters cover topics such as fractal and defected ground structure antennas, 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 and electrical engineering as well as instrumentation will benefit from the information given in this book.

Band-Notch Characteristics in Ultra-Wideband Antennas Jul 20 2022  
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, filtennas, 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.

Antenna Systems Feb 03 2021 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 wireless channel modeling for 5G and V2X applications and  
implantable devices. Chapters discuss modern metalens antennas in  
microwaves, terahertz, and optical domain. Moreover, 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.

Proceedings of International conference on Antenna Technologies Mar 28 2023

**Antenna Theory and Microstrip Antennas Apr 29 2023** Antenna Theory and Microstrip Antennas offers a uniquely balanced analysis of antenna fundamentals and microstrip antennas. Concise and readable, it provides theoretical background, application materials, and details of recent progress. Exploring several effective design approaches, this book covers a wide scope, making it an ideal hands-on resource for professionals seeking a refresher in the fundamentals. It also provides the basic grounding in antenna essentials that is required for those new to the field. The book's primary focus is on introducing practical techniques that will enable users to make optimal use of powerful commercial software packages and computational electromagnetics used in full wave analysis and antenna design. Going beyond particular numerical computations to teach broader concepts, the author systematically presents the all-important spectral domain approach to analyzing microstrip structures including antennas. In addition to a discussion of near-field measurement and the high-frequency method, this book also covers: Elementary linear sources, including Huygen's planar element, and analysis and synthesis of the discrete and continuous arrays formed by these elementary sources The digital beam-forming antenna and smart antenna Cavity mode theory and related issues, including the design of irregularly shaped patches and the analysis of mutual coupling Based on much of the author's own internationally published research, and honed by his years of teaching experience, this text is designed to bring students, engineers, and technicians up to speed as efficiently as possible. This text purposefully emphasizes principles and includes carefully selected sample problems to ease the process of understanding the often intimidating area of antenna technology. Paying close attention to this text, you will be able to confid

*Design and Optimization of Sensors and Antennas for Wearable Devices: Emerging Research and Opportunities Apr 17 2022* Wearable continuous monitoring systems are necessary in risky environments such as mining and diving and are especially important in the medical monitoring of patients both in medical facilities and at home. All these applications of monitoring with data transmission functions can be achieved by using wearable antennas. Recently, possibilities of connecting completely independent appliances with textiles have emerged. However, full success will be achieved only when antennas and all related components are entirely converted into 100% textile materials. Design and Optimization of Sensors and Antennas for Wearable Devices: Emerging Research and Opportunities provides

innovative insights on the development of adaptable materials and textile antennas that can be used in the construction of wearable devices that are biocompatible and offer high conductivity, low cost, simplistic manufacturing, are comfortable for the wearer, and are water/climate safe and condition amicable. The content within this publication examines data transmission, wearable computing, and medical applications. It is designed for engineers, manufacturers, researchers, academicians, and scientists who are interested in the development of wearable technologies.

**Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems Oct 31 2020** This book comprises select peer-reviewed papers from the International Conference on VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems (VSPICE-2020). The book provides insights into various aspects of the emerging fields in the areas Electronics and Communication Engineering as a holistic approach. The various topics covered in this book include VLSI, embedded systems, signal processing, communication, power electronics and internet of things. This book mainly focuses on the most recent innovations, trends, concerns and practical challenges and their solutions. This book will be useful for academicians, professionals and researchers in the area of electronics and communications and electrical engineering.

**Proceedings of the International Conference on Soft Computing Systems May 18 2022** The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

**International Symposium Digest, Antennas and Propagation Mar 16 2022**  
**Broadband Planar Antennas May 06 2021** The increasing demand for wireless communications has revolutionised the lifestyle of today's society and one of the key components of wireless technology is antenna design. Broadband planar antennas are the newest generation of antennas boasting the attractive features required, such as broad operating bandwidth, low profile, light weight, low cost and ease of integration into arrays or Radio Frequency (RF) circuits, to make them ideal components of modern communications systems. Research into small and broadband antennas has been spurred by the rapid development of portable wireless communication devices such as cell phones, laptops and personal digital assistants. This all-encompassing volume, **Broadband Planar Antennas: Design and**

Applications, systematically describes the techniques for all planar antennas from microstrip patch antennas, suspended plate antennas and planar inverted-L/F antennas to planar dipole antennas. Also discussed are some of the most recent outcomes such as broadband antenna issues in promising ultra-wideband applications. Clearly describes the fundamentals of planar antennas and categorises them according to their radiation characteristics Introduces the advanced progress in broadband planar antennas for modern wireless communications Includes a wealth of case studies, design guidelines, figures and tables This text is essential reading for antenna, RF and microwave engineers and manufacturers within the telecommunications industry. Its highly accessible approach will also appeal to researchers, postgraduate students and academic lecturers.

Microelectronic Devices, Circuits and Systems Jan 02 2021 This book constitutes the proceedings of the Third International Conference on Microelectronic Devices, Circuits and Systems, ICMDCS 2022, was held in Vellore, India, in August 2022. The 9 full papers and 5 short paper presented in this volume were carefully reviewed and selected from 84 submissions. The papers are organized in the following topical sections: System Level Design; Digital Design; Analog, Mixed-Signal and RF Design; and Emerging Technologies.

Integrated Intelligent Computing, Communication and Security May 26 2020 This book highlights the emerging field of intelligent computing and developing smart systems. It includes chapters discussing the outcome of challenging research related to distributed computing, smart machines and their security related research, and also covers next-generation communication techniques and the networking technologies that have the potential to build the future communication infrastructure. Bringing together computing, communications and other aspects of intelligent and smart computing, it contributes to developing a roadmap for future research on intelligent systems.

Microstrip Antennas Jan 26 2023 "This anthology combines 15 years of microstrip antenna technology research into one significant volume and includes a special introductory tutorial by the co-editors. Covering theory, design and modeling techniques and methods, this source book is an excellent reference tool for engineers who want to become more familiar with microstrip antennas and microwave systems. Proven antenna designs, novel solutions to practical design problems and relevant papers describing the theory of operation and analysis of microstrip antennas are contained within this convenient reference."

Microstrip Antenna Design for Wireless Applications Nov 24 2022 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

*Intelligent Communication, Control and Devices* Sep 29 2020 The book focuses on the integration of intelligent 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, organized by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 15 and 16 April, 2017. The volume broadly covers recent 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, academicians, scientists and industrial practitioners.

*Microstrip Antennas* Oct 23 2022 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.

*Antennas for Global Navigation Satellite Systems* Sep 10 2021 This book addresses the fundamentals and practical implementations of antennas for Global Navigation Satellite Systems (GNSS) In this book, the authors discuss the various aspects of GNSS antennas, including fundamentals of GNSS, design approaches for the GNSS terminal and satellite antennas, performance enhancement techniques and effects of user's presence and surrounding environment on these antennas. In

addition, the book will provide the reader with an insight into the most important aspects of the GNSS antenna technology and lay the foundations for future advancements. It also includes a number of real case studies describing the ways in which antenna design can be adapted to conform to the design constraints of practical user devices, and also the management of potential adverse interactions between the antenna and its platform. Key Features: Covers the fundamentals and practical implementations of antennas for Global Navigation Satellite Systems (GNSS) Describes technological advancements for GPS, Glonass, Galileo and Compass Aims to address future issues such as multipath interference, in building operation, RF interference in mobile Includes a number of real case studies to illustrate practical implementation of GNSS This book will be an invaluable guide for antenna designers, system engineers, researchers for GNSS systems and postgraduate students (antennas, satellite communication technology). R&D engineers in mobile handset manufacturers, spectrum engineers will also find this book of interest.

- [Antenna Theory And Microstrip Antennas](#)
- [Proceedings Of International Conference On Antenna Technologies](#)
- [Handbook Of Microstrip Antennas](#)
- [Microstrip Antennas](#)
- [Microstrip Patch Antennas A Designers Guide](#)
- [Microstrip Antenna Design For Wireless Applications](#)
- [Microstrip Antennas](#)
- [Smart Antennas](#)
- [Microstrip Antenna](#)
- [Band Notch Characteristics In Ultra Wideband Antennas](#)
- [Digest](#)
- [Proceedings Of The International Conference On Soft Computing Systems](#)
- [Design And Optimization Of Sensors And Antennas For Wearable Devices Emerging Research And Opportunities](#)
- [International Symposium Digest Antennas And Propagation](#)
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- [Antennas For Global Navigation Satellite Systems](#)
- [Advances In Computer Vision And Information Technology](#)
- [Proceedings Of International Conference On Wireless Communication](#)
- [Planar Antennas](#)
- [Broadband Planar Antennas](#)
- [Antenna Design For Narrowband IoT Design Analysis And Applications](#)
- [Printed Antennas](#)
- [Antenna Systems](#)
- [Microelectronic Devices Circuits And Systems](#)
- [Theory And Applications Of Applied Electromagnetics](#)
- [Advances In VLSI Signal Processing Power Electronics IoT Communication And Embedded Systems](#)
- [Intelligent Communication Control And Devices](#)
- [Printed Antennas](#)
- [Frequency Agile Antennas For Wireless Communications](#)
- [Proceedings Of International Conference On Wireless Communication](#)
- [Integrated Intelligent Computing Communication And Security](#)
- [Advances In Fire And Process Safety](#)
- [Broadband Patch Antennas](#)
- [Millimeter wave Microstrip And Printed Circuit Antennas](#)
- [Recent Trends In Intensive Computing](#)
- [Omnidirectional Slots Antenna](#)