

A Compact Microstrip Patch Antenna For Lte Applications

Compact and Broadband Microstrip Antennas **Microstrip Patch Antennas: A Designer's Guide** **Microstrip Patch Antenna Design** **Microstrip Antenna Design for Wireless Applications** Microstrip Patch Antennas for Modern Communication Systems **Micro-Electronics and Telecommunication Engineering** **Compact Microstrip Antenna For Wireless Applications** Progress in Compact Antennas **2021 IEEE International Conference on Power Electronics, Computer Applications (ICPECA)** Microstrip Antenna Design Handbook **A Simple Design and Analysis of Coaxial Fed Annular Ring Microstrip Patch Antenna For Wireless Communication Systems** **Microstrip Antennas** **Proceedings of the 3rd International Conference on Communication, Devices and Computing** **Microstrip Patch Antennas: A Designer's Guide** **Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014** Topical Drifts in Intelligent Computing Compact Multifunctional Antennas for Wireless Systems *Advances in Electrical and Computer Technologies* **Innovative Systems for Intelligent Health Informatics** **Advanced Computing and Intelligent Engineering** **Printed Antennas for 5G Networks** Ubiquitous Networking **Microstrip and Printed Antennas: Applications-Based Designs** *Communication, Devices, and Computing* Microstrip Patch Antenna Learning using MATLAB. Theory and Implementation **Optical and Wireless Technologies** Soft Computing: Theories and Applications **Electronics and Communications Engineering** **Intelligent Techniques and Applications in Science and Technology** **Computation and Communication Technologies** **Advances in Electronics, Communication and Computing** **Proceedings of International Conference on Wireless Communication ICCCE 2019** **Smart Antennas** **Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015)** *Advances in Optical Science and Engineering* *IMDC-SDSP 2020* *Advanced Informatics for Computing Research* **Simplified Technique for Designing of Broadband Patch Antennas** *Design of Compact Circular Microstrip Antenna for WLAN Applications*

Getting the books **A Compact Microstrip Patch Antenna For Lte Applications** now is not type of inspiring means. You could not solitary going subsequently book deposit or library or borrowing from your associates to log on them. This is an categorically easy means to specifically get guide by on-line. This online declaration **A Compact Microstrip Patch Antenna For Lte Applications** can be one of the options to accompany you with having extra time.

It will not waste your time. bow to me, the e-book will totally way of being you additional concern to read. Just invest little grow old to open this on-line pronouncement **A Compact Microstrip Patch Antenna For Lte Applications** as competently as review them wherever you are now.

Microstrip Antenna Design Handbook Jan 27 2022 Based on Bahl and Bhartia's popular 1980 classic, *Microstrip Antennas*, this all new book provides the detail antenna engineers and designers need to design any type of microstrip antenna. After addressing essential microchip antenna theory, the authors highlight current design and engineering practices, emphasizing the most pressing issues in this area, including broadbanding, circular polarization, and active microstrip antennas in particular. Special design challenges, ranging from dual polarization, high bandwidth, and surface wave mitigation, to choosing the proper substrate, and shaping an antenna to achieve desired results are all covered.

Ubiquitous Networking Jan 15 2021 This book constitutes the refereed proceedings of the Third International Symposium on Ubiquitous Networking, UNet 2017, held in Casablanca, Morocco, in May 2017. The 56 full papers presented in this volume were carefully reviewed and selected from 127 submissions. They were organized in topical sections named: context-awareness and autonomy paradigms; mobile edge networking and virtualization; ubiquitous internet of things: emerging technologies and breakthroughs; and enablers, challenges and applications.

Topical Drifts in Intelligent Computing Jul 21 2021 This book gathers a collection of high-quality peer-reviewed research papers presented at International Conference on Computational Techniques and Applications (ICCTA 2021), organized by the Electronics and Telecommunication Engineers (IETE), Kolkata Center, India, during 8 – 9 October 2021. This includes research in the areas of intelligent computing and communication systems including computing, electronics, green energy design, communications, computers to interact and disseminate information on latest developments both academically and industrially for computational drifts. The three main tracks are (i) computing in network security, AI and data science; (ii) contemporary issues in electronics, and communication technology; and (iii) intelligent computing in electrical power, control systems and energy technology.

Advances in Electronics, Communication and Computing Apr 05 2020 This book is a compilation of research work in the interdisciplinary areas of electronics, communication, and computing. This book is specifically targeted at students, research scholars and academicians. The book covers the different approaches and techniques for specific applications, such as particle-swarm optimization, Otsu's function and harmony search optimization algorithm, triple gate silicon on insulator (SOI)MOSFET, micro-Raman and Fourier Transform Infrared Spectroscopy (FTIR) analysis, high-k dielectric gate oxide, spectrum sensing in cognitive radio, microstrip antenna, Ground-penetrating radar (GPR) with conducting surfaces, and digital image forgery

detection. The contents of the book will be useful to academic and professional researchers alike.

Advanced Computing and Intelligent Engineering Mar 17 2021 This book gathers high-quality research papers presented at the 3rd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2018). It includes sections describing technical advances and the latest research in the fields of computing and intelligent engineering. Intended for graduate students and researchers working in the disciplines of computer science and engineering, the proceedings will also appeal to researchers in the field of electronics, as they cover hardware technologies and future communication technologies.

2021 IEEE International Conference on Power Electronics, Computer Applications (ICPECA) Feb 25 2022 2021 IEEE International Conference on Power, Electronics and Computer Applications (ICPECA 2021) will take place in Shenyang, China, on January 22-24, 2021. ICPECA 2021 seeks to provide a high level forum for experts, researchers, professionals, innovators and practitioners in the field of Power, Electronics and Computer Applications from industry and academia to present and discuss the wide spectrum of original and novel researches and contributions together.

Advanced Informatics for Computing Research Aug 29 2019 This two-volume set (CCIS 1075 and CCIS 1076) constitutes the refereed proceedings of the Third International Conference on Advanced Informatics for Computing Research, ICAICR 2019, held in Shimla, India, in June 2019. The 78 revised full papers presented were carefully reviewed and selected from 382 submissions. The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; software and its engineering.

Computation and Communication Technologies May 07 2020 This conference proceedings summarizes invited publications from the two IDES (Institute of Doctors Engineers and Scientists) International conferences, both held in Bangalore/ India.

Proceedings of the 3rd International Conference on Communication, Devices and Computing Oct 24 2021 This book provides insights into the 3rd International Conference on Communication, Devices and Computing (ICCDC 2021), which was held in Haldia, India, on August 16-18, 2021. It covers new ideas, applications, and the experiences of research engineers, scientists, industrialists, scholars, and students from around the globe. The proceedings highlight cutting-edge research on communication, electronic devices, and computing and address diverse areas such as 5G communication, spread spectrum systems, wireless sensor networks, and signal processing for secure communication, error control coding, printed antennas, analysis of wireless networks, antenna array systems, analog and digital signal processing for communication systems, frequency selective surfaces, radar communication, and substrate integrated waveguide and microwave passive components, which are key to state-of-the-art innovations in communication technologies.

Microstrip and Printed Antennas: Applications-Based Designs Dec 14 2020 This comprehensive resource presents antenna fundamentals balanced with the design of printed antennas. Over 70 antenna projects, along with design 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 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.

Microstrip Patch Antennas for Modern Communication Systems Jul 01 2022 The microstrip antenna is one of the most preferable for small equipment, especially when a built-in antenna is required. It has many advantages such as low profile and easy fabrication. However for low-frequency applications, the microstrip size becomes too large for practical implementation. The problems in microstrip antenna technology are the reduction of the antenna sizes and to obtain a larger bandwidth. The aim of this dissertation is to design and simulate compact microstrip patch antennas with good bandwidth. A semi-elliptical microstrip patch antenna with semi-elliptical parasitic patch is designed and investigated for Ku-band applications in Chapter 2. In this chapter stepwise simulation results have been presented while changing the various parameters of the patch and ground. Ultra-wideband (UWB) antennas have been a research and development topic of increased interest in the industry. The Federal Communication Commission (FCC) has recently allocated 7.5 GHz of bandwidth (3.1 to 10.6 GHz) for Ultra-wideband (UWB) applications.

Microstrip Patch Antenna Learning using MATLAB. Theory and Implementation Oct 12 2020 Scientific Study from the year 2021 in the subject Engineering - Communication Technology, , course: M. Tech, language: English, abstract: Microstrip patch antenna is used to send onboard parameters of article to the ground while under operating conditions. By the study of this book we find out how to investigate a new method of teaching microstrip patch antenna design for undergraduate students by using MATLAB. Effect of changes in basic parameter microstrip patch antenna on its radiation pattern and other parameters to study the effect of resonant frequency and substrate parameters like, relative dielectric constant, substrate thickness on the radiation parameters of bandwidth and physical dimension of the microstrip patch antenna can be determined by using GUI. In this book we develop simple CAD (GUI) formulas that describe the basic properties of microstrip patch antenna using MATLAB. By the usage of this teaching tool we can analyze the behaviour of the microstrip patch antenna and design of it for different material. Satellite communication and wireless communication has been developed rapidly in the past decades and it has already a dramatic impact on human life. In the last few years, the development of wireless local area networks (WLAN) represented one of the principal interests in the information and communication field. Thus, the current trend in commercial and government communication systems has been to develop low cost, minimal weight, low profile antennas that are capable of maintaining high performance over a large spectrum of frequencies. This technological trend has focused much effort into the design of microstrip (patch) antennas. The variety in design that is possible with microstrip antenna probably exceeds that of any other type of

antenna element. In addition, once the shape and operating mode of the patch are selected, designs become very versatile in terms of operating frequency, polarization, pattern, and impedance. They are extremely low profile, lightweight, simple and inexpensive to fabricate using modern day printed circuit board technology, compatible with microwave and millimeter-wave integrated circuits (MMIC), and have the ability to conform to planar and non planar surfaces.

Proceedings of International Conference on Wireless Communication Mar 05 2020 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.

Soft Computing: Theories and Applications Aug 10 2020 The book focuses on soft computing and its applications to solve real-world problems in different domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It includes high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2018), organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

Advances in Optical Science and Engineering Oct 31 2019 The Proceedings of First International Conference on Opto-Electronics and Applied Optics 2014, IEM OPTRONIX 2014 presents the research contributions presented in the conference by researchers from both India and abroad. Contributions from established scientists as well as students are included. The book is organized to enable easy access to various topics of interest. The first part includes the Keynote addresses by Phillip Russell, Max Planck Institute of the Light Sciences, Erlangen, Germany and Lorenzo Pavesi, University of Trento, Italy. The second part focuses on the Plenary Talks given by eminent scientists, namely, Azizur Rahman, City University London, London; Bishnu Pal, President, The Optical Society of India; Kamakhya Ghatak, National Institute of Technology, Agartala; Kehar Singh, Former Professor, India Institute of Technology Delhi; Mourad Zghal, SUPCOM, University of Carthage, Tunisia; Partha Roy Chaudhuri, IIT Kharagpur; S K. Bhadra, CSIR-Central Glass and Ceramic Research Institute, Kolkata; Sanjib Chatterjee, Raja Ramanna Centre for Advanced Technology, Indore; Takeo Sasaki, Tokyo University, Japan; Lakshminarayan Hazra, Emeritus Professor, University of Calcutta, Kolkata; Shyam Akashe, ITM University, Gwalior and Vasudevan Lakshminarayanan, University of Waterloo, Canada. The subsequent parts focus on topic-wise contributory papers in Application of Solar Energy; Diffraction Tomography; E.M. Radiation Theory and Antenna; Fibre Optics and Devices; Photonics for Space Applications; Micro-Electronics and VLSI; Nano-Photonics, Bio-Photonics and Bio-Medical Optics; Non-linear Phenomena and Chaos; Optical and Digital Data and Image Processing; Optical Communications and Networks; Optical Design; Opto-Electronic Devices; Opto-Electronic Materials and Quantum Optics and Information Processing.

Communication, Devices, and Computing Nov 12 2020 This book provides insights into the First International Conference on Communication, Devices and Computing (ICCDC 2017), which was held in Haldia, India on November 2–3, 2017. It covers new ideas, applications and the experiences of research engineers, scientists, industrialists, scholars and students from around the globe. The proceedings highlight cutting-edge research on communication, electronic devices and computing, and address diverse areas such as 5G communication, spread spectrum systems, wireless sensor networks, signal processing for secure communication, error control coding, printed antennas, analysis of wireless networks, antenna array systems, analog and digital signal processing for communication systems, frequency selective surfaces, radar communication, and substrate integrated waveguide and microwave passive components, which are key to state-of-the-art innovations in communication technologies.

Innovative Systems for Intelligent Health Informatics Apr 17 2021 This book presents the papers included in the proceedings of the 5th International Conference of Reliable Information and Communication Technology 2020 (IRICT 2020) that was held virtually on December 21–22, 2020. The main theme of the book is “Innovative Systems for Intelligent Health Informatics”. A total of 140 papers were submitted to the conference, but only 111 papers were published in this book. The book presents several hot research topics which include health informatics, bioinformatics, information retrieval, artificial intelligence, soft computing, data science, big data analytics, Internet of things (IoT), intelligent communication systems, information security, information systems, and software engineering.

Intelligent Techniques and Applications in Science and Technology Jun 07 2020 This book provides innovative ideas on achieving sustainable development and using green technologies to conserve our ecosystem. Innovation is the successful exploitation of a new idea. Through innovation, we can achieve MORE while using LESS. Innovations in science & technology will not only help mankind as a whole, but also contribute to the economic growth of individual countries. It is essential that the global problem of environmental degradation be addressed immediately, and thus, we need to rethink the concept of sustainable development. Indeed, new environmentally friendly technologies are fundamental to attaining sustainable development. The book shares a wealth of innovative green technological ideas on how to preserve and improve the quality of the environment, and how to establish a more resource-efficient and sustainable society. The book provides an interdisciplinary approach to addressing various technical issues and capitalizing on advances in computing & optimization for scientific & technological development, smart information, communication, bio-monitoring, smart cities, food quality assessment, waste management, environmental aspects, alternative energies, sustainable infrastructure development, etc. In short, it offers valuable information and insights for budding engineers, researchers, upcoming young minds and industry professionals, promoting awareness for recent advances in the various fields mentioned above.

Printed Antennas for 5G Networks Feb 13 2021 The book provides a comprehensive overview of antennas for 5G technology,

such as MIMO, multiband antennas, Magneto-Electric Dipole Antenna and PIFA Antenna for 5G networks, phased array antennas for 5G access, beam-forming and beam-steering issues, 5G antennas for specific applications (smartphone, cognitive radio) and advance antenna concept and materials for 5G. The book also covers optimizations methods for passive and active devices in mm-Wave 5G networks. It explores topics which influence the design and characterization of antennas such as data rates, high isolation, pattern and spatial diversity, making 5G antennas more suitable for a multipath environment. The book represents a learning tool for researchers in the field, and enables engineers, designers and manufacturers to identify key design challenges of antennas for 5G networks, and characterize novel antennas for 5G networks.

Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015)

Dec 02 2019 This book includes the original, peer-reviewed research papers from the 2nd International Conference on Electrical Systems, Technology and Information (ICESTI 2015), held in September 2015 at Patra Jasa Resort & Villas Bali, Indonesia. Topics covered include: Mechatronics and Robotics, Circuits and Systems, Power and Energy Systems, Control and Industrial Automation, and Information Theory. It explores emerging technologies and their application in a broad range of engineering disciplines, including communication technologies and smart grids. It examines hybrid intelligent and knowledge-based control, embedded systems, and machine learning. It also presents emerging research and recent application in green energy system and storage. It discusses the role of electrical engineering in biomedical, industrial and mechanical systems, as well as multimedia systems and applications, computer vision and image and signal processing. The primary objective of this series is to provide references for dissemination and discussion of the above topics. This volume is unique in that it includes work related to hybrid intelligent control and its applications. Engineers and researchers as well as teachers from academia and professionals in industry and government will gain valuable insights into interdisciplinary solutions in the field of emerging electrical technologies and its applications.

Simplified Technique for Designing of Broadband Patch Antennas Jul 29 2019 Microstrip patch antennas (MPA) were preferred for such work due to their small size. The development of MPA enters its prosperous era after the debut of the first practical microstrip antenna in 1970s. Since then, microstrip patch antennas have been widely employed in modern wireless communication systems. It is because microstrip patch antennas have many advantages of low profile, light weight, easy fabrication, conformal and easy integration with integrated circuits. However, conventional patch antennas suffer from narrow bandwidth and large size. Along with the rising demand for wider bandwidth and smaller size, wide-band and compact patch antennas have been developed extensively. A technique of broad banding by slot loading is preferred. By means, slots are cut into rectangular patch antenna in order to cut the current flow lines, so that higher frequency modes can be perturbed and ratio of two frequencies can be adjusted by adjusting the slot size. Then to reduce the size of the antenna the loading of shorting pins was introduced. This type of antenna is often known as PIFA. Due to its compact size, PIFA is used in mobile and wireless communication.

Compact Microstrip Antenna For Wireless Applications Apr 29 2022 This book describes about the experimental and simulation work carried out on rectangular microstrip antennas (RMAs). The various RMAs have been designed and fabricated on easily available, low cost FR4 dielectric material at S-band frequency. The patch element (radiator) is excited using co-axial probe feed technique. The effect of slots, slits, stubs in enhancing the various antenna parameters such as compactness, impedance bandwidth and gain are studied in detail. Compactness, impedance bandwidth and gain of RMA has been enhanced using various techniques such as patch with slots, slits on patch, stubs loaded patch on 0.16 cm thick dielectric material with inverted patch configuration having air as a substrate medium. With these techniques, a compactness of 78%, 12.41% of bandwidth. It is also concluded that by etching the various slits on the patch having a superstrate thickness of 0.24 cm (2.4 mm thick Yagi-RMA and 2.4 mm thick H-RMA). This technique reduced the maximum physical size (compactness) of the antenna upto 98.3 % with a gain of 7.13 dB. These antennas may find applications in the wireless, microwave communication systems operating in L and S band of frequency range.

Electronics and Communications Engineering Jul 09 2020 Every day, millions of people are unaware of the amazing processes that take place when using their phones, connecting to broadband internet, watching television, or even the most basic action of flipping on a light switch. Advances are being continually made in not only the transmission of this data but also in the new methods of receiving it. These advancements come from many different sources and from engineers who have engaged in research, design, development, and implementation of electronic equipment used in communications systems. This volume addresses a selection of important current advancements in the electronics and communications engineering fields, focusing on signal processing, chip design, and networking technology. The sections in the book cover: Microwave and antennas
Communications systems Very large-scale integration Embedded systems Intelligent control and signal processing systems

Microstrip Antennas Nov 24 2021 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.

Optical and Wireless Technologies Sep 10 2020 This book comprises select proceedings of the 4th International Conference on Optical and Wireless Technologies (OWT 2020). The contents of this volume focus on research carried out in the areas of Optical Communication, Optoelectronics, Optics, Wireless Communication, Wireless Networks, Sensors, Mobile Communications and Antenna and Wave Propagation. The volume also explores the combined use of various optical and wireless technologies in next generation applications, and their latest developments in applications like photonics, high speed communication systems and networks, visible light communication, nanophotonics, wireless and MIMO systems. This book will serve as a useful reference to scientists, academicians, engineers and policy-makers interested in the field of optical and wireless technologies.

Compact Multifunctional Antennas for Wireless Systems Jun 19 2021 Offers an up-to-date description of modern multifunctional antenna systems and microwave components Compact multifunctional antennas are of great interest in the field of antennas and wireless communication systems, but there are few, if any, books available that fully explore the multifunctional concept. Divided into six chapters, Compact Multifunctional Antennas for Wireless Systems encompasses both the active and passive multifunctional antennas and components for microwave systems. It provides a systematic, valuable reference for antenna/microwave researchers and designers. Beginning with such novel passive components as antenna filters, antenna packaging covers, and balun filters, the book discusses various miniaturization techniques for the multifunctional antenna systems. In addition to amplifying and oscillating antennas, the book also covers design considerations for frequency- and pattern-reconfigurable antennas. The last chapter is dedicated to the field of solar cell integrated antennas. Inside, readers will find comprehensive chapters on: Compact Multifunctional Antennas in Microwave Wireless Systems Multifunctional Passive Integrated Antennas and Components Reconfigurable Antennas Receiving Amplifying Antennas Oscillating Antennas Solar cell integrated Antennas Aimed at professional engineers and researchers designing compact antennas for wireless applications, Compact Multifunctional Antennas for Wireless Systems will prove to be an invaluable tool.

Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014 Aug 22 2021 This volume contains 87 papers presented at FICTA 2014: Third International Conference on 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 Network and Information Security, Grid Computing and Cloud Computing, Cyber Security and Digital Forensics, Computer Vision, Signal, Image & Video Processing, Software Engineering in Multidisciplinary Domains and Ad-hoc and Wireless Sensor Networks.

Microstrip Patch Antennas: A Designer's Guide Oct 04 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.

Design of Compact Circular Microstrip Antenna for WLAN Applications Jun 27 2019 This reference book entitled 'Design of Compact Circular Microstrip Antenna for WLAN Applications' highlights the fundamental concepts, theories, principles, design procedure and applications related issues for Circular Microstrip Patch Antennas. The graphical, tabulated results, design equations, design procedure, formulae, numerical and mathematical analysis produced are of high eminence and trustworthy.

ICCCE 2019 Feb 02 2020 This book is a collection research papers and articles from the 2nd International Conference on Communications and Cyber-Physical Engineering (ICCCE – 2019), held in Pune, India in Feb 2019. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image- and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry.

Advances in Electrical and Computer Technologies May 19 2021 This book comprises select proceedings of the International Conference on Advances in Electrical and Computer Technologies 2021 (ICAECT 2021). The papers presented in this book are peer-reviewed and cover the latest research in electrical, electronics, communication, and computer engineering. Topics covered include smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geographic information systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broadband communication, mobile and optical communication, network security, VLSI, embedded systems, optical networks, and wireless communication. The book is useful for students and researchers working in the different overlapping areas of electrical, electronics, and communication engineering.

A Simple Design and Analysis of Coaxial Fed Annular Ring Microstrip Patch Antenna For Wireless Communication Systems Dec 26 2021 Research Paper from the year 2014 in the subject Engineering - Communication Technology, grade: 10, Shantilal Shah Engineering College, language: English, abstract: In this paper design and analysis of annular or circular ring type microstrip patch antenna and the basic terms related to design aspects and study of proposed antenna is presented. Like many available variations of microstrip patch geometries annular or circular ring widely used due to its broadband nature when operated in TM_{12} mode and has smaller circular counterparts when it is operated in its fundamental mode TM_{11} . In this article theoretical and mathematical analysis related to annular ring patch antenna with design is presented and briefly explained. The designed antenna operates at 2.4 GHz resonant frequency so can be used in ISM (Industrial, Scientific and Medical) band wireless applications. The proposed antenna shows good return loss, VSWR as depicted in the graphs.

Micro-Electronics and Telecommunication Engineering May 31 2022 This book presents selected papers from the 3rd International Conference on Micro-Electronics and Telecommunication Engineering, held at SRM Institute of Science and Technology, Ghaziabad, India, on 30-31 August 2019. It covers a wide variety of topics in micro-electronics and telecommunication engineering, including micro-electronic engineering, computational remote sensing, computer science and intelligent systems, signal and image processing, and information and communication technology.

IMDC-SDSP 2020 Sep 30 2019 IMDC-SDSP conference offers an exceptional platform and opportunity for practitioners, industry experts, technocrats, academics, information scientists, innovators, postgraduate students, and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work. The timing of this conference coincides with the rise of Big Data, Artificial Intelligence powered applications, Cognitive Communications, Green Energy, Adaptive Control and Mobile Robotics towards maintaining the Sustainable Development and Smart Planning and management of the future technologies. It is aimed at the knowledge generated from the integration of the different data sources related to a number of active real-time applications in supporting the smart planning and enhance and sustain a healthy environment. The conference also covers the rise of the digital health, well-being, home care, and patient-centred era for the benefit of patients and

healthcare providers; in addition to how supporting the development of a platform of smart Dynamic Health Systems and self-management.

Microstrip Antenna Design for Wireless Applications Aug 02 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

Compact and Broadband Microstrip Antennas Nov 05 2022 Compact microstrip antennas are of great importance in meeting the miniaturization requirements of modern portable communications equipment This book is a comprehensive treatment of design techniques and test data for current compact and broadband microstrip designs Summarizes the work of the author and his graduate students who have published over 80 refereed journal articles on the subject in the past few years Advanced designs reported by various other prestigious antenna designers are incorporated as well

Progress in Compact Antennas Mar 29 2022 Compact antennas are a subject of growing interest from industry and scientific community to equip wireless communicating objects. The need for high performance small antennas and RF front ends is the challenge for future and next generation mobile devices. This book brings the body of knowledge on compact antennas into a single comprehensive volume. It is designed to meet the needs of electrical engineering and physics students to the senior undergraduate and beginning graduate levels, and those of practicing engineers.

Smart Antennas Jan 03 2020 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.

Microstrip Patch Antenna Design Sep 03 2022 Besides lot of advantages of Microstrip Patch Antenna some severe limitations like narrow bandwidth, low power output, low gain hindered it to use in some application specially where wideband, high gain & high power is essential. In modern days researchers are concentrated to overcome these limitations. The design of dual or multi-frequency patch antennas are also very much important because any one can use a single antenna instead of two or more antenna operating in the single frequency. Compact microstrip patch antenna design is also important in modern days as the area is a major constrained in the MMIC design. In this book new and novel approaches to design dual, multi-frequency, compact and broadband microstrip patch antennas are discussed which are very new and published in different international journals by the author. This book constitutes of eight chapters among which first three chapters are about the basic concept and the last one is for major findings and future scope of work for the young researchers. Other four chapters are for novel approaches for designing different types of microstrip patch antennas.

Microstrip Patch Antennas: A Designer's Guide Sep 22 2021 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.