

# Dual Band Step Shaped Antenna Array For Wlan And Wimax

Dual Band Co Linear Antenna Made From RG58 Coax L-Shaped Dual-Band MIMO Rectangular Dielectric Resonator Antenna for LTE Applications Design and Development of an I-Slot Antenna for Dual-Band Applications 2.4GHz , 5.8GHz circular fractal dual band antenna design 2D, 3D results using CST Building a 2m - 70cm Dual Band \"Eggbeater\" Antenna HAR 7700 dual-band antenna: excellent for 2m/70cm How to make a Dual Band Rollup J pole Antenna for 2 meters and 70 centimeters!! Homemade Full Wave Dual Band Antenna For 2 Meter \u0026 70CM's Measurements To Make It How Far Can the BCA-300 Dual Band Mag Mount Antenna Transmit? BCA-300 Road Test Design of E-Shaped Nano Patch Dual Band Antenna for 5G Applications Compact lotus shape dual band patch antenna for Bluetooth and ultra wideband applications Dual band microstrip antenna for the 5G indoor/outdoor wireless applications HAM RADIO: Easy Slimjim / J-Pole Dual band Antenna Build for 2m/70cm . Design of a dual-band CP monopole antenna using HFSS. LCARA HAM Radio: HYS Dual-Band Magnetic Mobile Antenna!!!! How to model a differentially fed - dual-band filtering antenna with H-shaped slot in CST software Design of E-Shaped Nano Patch Dual Band Antenna for 5G Applications HFSS design of microstrip u shaped slot antenna with dual band operations Design of E shaped nano patch dual band antenna for 5G applications-2019-20 Dual band X shape Microstrip Patch Antenna for SatelliteApplications

Smart Computing and Informatics

Optical and Wireless Technologies

Microstrip Antenna Design for Wireless Applications

Antenna Fundamentals for Legacy Mobile Applications and Beyond

Advanced Computer and Communication Engineering Technology

Advances in Microwave Engineering

Printed Antennas for Future Generation Wireless Communication and Healthcare

Advances in Communication, Devices and Networking

Wideband, Multiband, and Smart Antenna Systems

Optical And Microwave Technologies

Handbook of Reflector Antennas and Feed Systems Volume III: Applications of Reflectors

Microelectronics, Electromagnetics and Telecommunications

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Advancement in Microstrip Antennas with Recent Applications

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Microstrip Patch Antennas: A Designer's Guide

Multifunctional and Multiband Planar Antennas for Emerging Wireless Applications

*Dual Band Step Shaped Antenna Array  
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**KANE CABRERA**

Smart Computing and Informatics Springer

This is the first truly comprehensive and most up-to-date handbook available on modern reflector antennas and feed sources for diversified space and ground applications. There has never been such an all-encompassing reflector handbook in print, and no currently available title offers coverage of such recent research developments. The Handbook consists of three volumes. Volume III focuses on the range of reflector antenna applications, including space, terrestrial, and radar. The intent of this book volume is to provide practical applications and design information on reflector antennas used for several communications systems. This book covers recent developments of reflector antennas used for satellite communications, terrestrial communications, and remote sensing applications. New subjects are introduced for the first time, including satellite antennas, Terahertz antennas, PIM, multipaction, corona, deployable mesh reflector antennas, and mechanical aspects of reflector antennas. In addition, this book contains a separate topic on integrated feed assembly for reflector antennas covering analysis, design, fabrication, and test.

## OPTICAL AND WIRELESS TECHNOLOGIES

John Wiley & Sons

This book presents the proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCB-2018), held on December 19-20, 2018 in Madurai, India. In recent years, advances in information and communication technologies [ICT] have collectively aimed to streamline the evolution of internet applications. In this context, increasing the ubiquity of emerging internet applications with an enhanced capability to communicate in a distributed environment has become a major need for existing networking models and applications. To achieve this, Internet of Things [IoT] models have been developed to facilitate a smart interconnection and information exchange among modern objects - which plays an essential role in every aspect of our lives. Due to their pervasive nature, computer networks and IoT can easily connect and engage effectively with their network users. This vast network continuously generates data from heterogeneous devices, creating a need to utilize big data, which provides new and unprecedented opportunities to process these huge volumes of data. This International Conference on Computer Networks, Big Data, and Internet of Things [ICCB] brings together state-of-the-art research work, which briefly describes advanced IoT applications in the era of big data. As such, it offers valuable insights for researchers and scientists involved in developing next-generation, big-data-driven IoT applications to address the real-world challenges in building a smartly connected environment.

## MICROSTRIP ANTENNA DESIGN FOR WIRELESS APPLICATIONS

BoD - Books on Demand

This book comprises the proceedings of the International Conference on VLSI & Microwave and Wireless Technologies (ICVMWT-2021). The book includes peer-reviewed papers on the core technological developments in emerging fields like wireless communication, RF microwave/radar, VLSI, optical

communication, etc. The book will serve as a valuable reference resource for academics and researchers across the globe.

*Antenna Fundamentals for Legacy Mobile Applications and Beyond* CRC Press

The book is a collection of best selected research papers presented at the Fourth International Conference on Communication, Devices and Computing (ICCDC 2023). The book covers new ideas, applications and experiences of research engineers, scientists, industrialists, scholars and students from in and around the globe. It covers research contributions from communication technologies which are from the areas such as 5G communication, next-generation Wi-Fi, spread spectrum systems, satellite and high altitude platforms, radio over fiber techniques, wireless sensor networks, modulation and diversity technique, ad hoc and mesh networks, cognitive radio networking, optical wireless and visible light communications, signal processing for secure communication, millimeter wave and terahertz communication, design, control and management of optical network, error control coding and information theory, printed antennas, performance analysis of wireless network, smart antennas and space time processing.

## ADVANCED COMPUTER AND COMMUNICATION ENGINEERING TECHNOLOGY

Springer Nature

This book features selected high-quality papers from the International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on 13-14 December 2019. Presenting innovations in power, communication, and computing, it covers topics such as mini, micro, smart and future power grids; power system economics; energy storage systems; intelligent control; power converters; improving power quality; signal processing; sensors and actuators; image/video processing; high-performance data mining algorithms; advances in deep learning; and optimization methods.

*Advances in Microwave Engineering* Springer Nature

This book includes high-quality papers presented at Second International Conference on Computational Electronics for Wireless Communications (ICWC 2022), held at National Institute of Technology, Surathkal, Karnataka, India, during June 9 - 10, 2022. The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics, and wireless networks.

## PRINTED ANTENNAS FOR FUTURE GENERATION WIRELESS COMMUNICATION AND HEALTHCARE

Ambient Communications and Computer Systems

This book highlights technology trends and challenges that trace the evolution of antenna design, starting from 3rd generation phones and moving towards the latest release of LTE-A. The authors explore how the simple monopole and whip antenna from the GSM years have evolved towards what we have today, an antenna design that is compact, multi-band in nature and caters to multiple elements on the same patch to provide high throughput connectivity. The scope of the book targets a broad

range of subjects, including the microstrip antenna, PIFA antenna, and the monopole antenna to be used for different applications over three different mobile generations. Beyond that, the authors take a step into the future and look at antenna requirements for 5G communications, which already has the 5G drive in place with prominent scenarios and use-cases emerging. They examine these, and put in place the challenges that lie ahead for antenna design, particularly in mm-Wave design. The book provides a reference for practicing engineers and under/post graduate students working in this field.

## ADVANCES IN COMMUNICATION, DEVICES AND NETWORKING

CRC Press

This book presents a comprehensive and in-depth exploration of the intricate design process and advanced modeling techniques employed in the creation of cutting-edge antenna geometries specifically tailored to meet the demands of Sub-6 GHz 5G wireless applications and communication systems. The authors provide valuable insights into the selection of flexible substrates, which serve as the foundation for the production of versatile antennas capable of seamlessly integrating into the rapidly evolving 5G and MIMO landscapes. Delving into the depths of antenna design, this book highlights the key aspects surrounding flexible MIMO antennas, showcasing their remarkable compatibility within compact spaces. The authors elucidate the intricacies involved in creating these antennas, illuminating their ability to adapt to challenging environmental conditions while maintaining exceptional performance. Furthermore, the authors delve into the fascinating realm of optimized flexible antenna arrays for MIMO systems, employing both transparent and non-transparent materials. The development of such arrays entails a meticulous optimization process, where a delicate balance between performance, form factor, and functionality is achieved. By shedding light on this complex process, the book equips readers with the knowledge and tools necessary to engineer high-performing, flexible antenna arrays for advanced wireless communication systems. The book embraces a broad scope by encompassing various substrate materials and fabrication techniques. This inclusive approach ensures its relevance and applicability to a wide range of readers, including novice researchers, postgraduate students, research scholars, as well as seasoned professionals and experts in the field of antennas hailing from diverse industries and academic institutions. Moreover, undergraduate students pursuing degrees in Communication Engineering, Electronics Engineering, and Antennas for Wireless Communication Systems will find this book to be an indispensable resource, offering highly pertinent and enlightening content that bridges the gap between theoretical concepts and real-world antenna design challenges.

## Wideband, Multiband, and Smart Antenna Systems

Springer

Issues in Electronic Circuits, Devices, and Materials: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Electronic Circuits, Devices, and Materials. The editors have built Issues in Electronic Circuits, Devices, and Materials: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Electronic Circuits, Devices, and Materials in this eBook to be deeper than what you can access anywhere else,

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**Optical And Microwave Technologies** Springer

Wireless Sensor Network (WSN) consists of numerous physically distributed autonomous devices used for sensing and monitoring the physical and/or environmental conditions. A WSN uses a gateway that provides wireless connectivity to the wired world as well as distributed networks. There are many open problems related to Ad-Hoc networks and its applications. Looking at the expansion of the cellular infrastructure, Ad-Hoc network may be acting as the basis of the 4th generation wireless technology with the new paradigm of 'anytime, anywhere communications'. To realize this, the real challenge would be the security, authorization and management issues of the large scale WSNs. This book is an edited volume in the broad area of WSNs. The book covers various chapters like Multi-Channel Wireless Sensor Networks, its Coverage, Connectivity as well as Deployment. It covers comparison of various communication protocols and algorithms such as MANNET, ODMRP and ADMR Protocols for Ad hoc Multicasting, Location Based Coordinated Routing Protocol and other Token based group local mutual exclusion Algorithms. The book also covers a chapter on Extended Ad hoc On-Demand Distance Vector (EAODV) routing protocol based on Distributed Minimum Transmission Multicast Routing (DMTMR). One chapter is dedicated to OCDMA and its future application and another chapter covers development of Home Automation System using SWN.

#### **HANDBOOK OF REFLECTOR ANTENNAS AND FEED SYSTEMS VOLUME III: APPLICATIONS OF REFLECTORS**

CRC Press

This book covers recent trends in the field of devices, wireless communication and networking. It gathers selected papers presented at the 5th International Conference on Communication, Devices and Networking (ICCDN 2021), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India, on 15-16 December 2021. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives and offer them inspirations on how to address real-world problems in the areas of electronics, communication, devices and networking.

#### **MICROELECTRONICS, ELECTROMAGNETICS AND TELECOMMUNICATIONS**

Springer

This book presents a comprehensive approach to antenna designs for various applications, including 5G communication, the internet of things (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 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. **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 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 graduate students and academic researchers in areas including electrical engineering, electronics, and communication engineering.

**Smart Antennas** Springer

This text showcases recent advancements in the field of microwave engineering, starting from the use of innovative materials to the latest microwave applications. It also highlights safety guidelines for exposure to microwave and radio frequency energy. The book provides information on measuring circuit parameters and dielectric parameters. • Explains microwave antennas, microwave communication, microwave propagation, microwave devices, and circuits in detail • Covers microwave measurement techniques, radiation hazards, space communication, and safety measures • Focuses on advanced computing technologies, wireless communication, and fiber optics • Presents scattering matrix and microwave passive components and devices such as phase shifters and power dividers • Showcases the importance of space communication, radio astronomy, microwave material processing, and advanced computing technologies The text provides a comprehensive study of the foundations of microwave heating and its interactions with materials for various applications. It also addresses applications of microwave devices and technologies in diverse areas, including computational electromagnetics, remote sensing, transmission lines, radiation hazards, and safety measures. It emphasizes the impact of resonances on microwave power absorption and the effect of nonuniformity on heating rates. The text is primarily written for senior undergraduate students, graduate students, and academic researchers in the fields of electrical engineering, electronics and communication engineering, computer engineering, and materials science.

#### **Advancement in Microstrip Antennas with Recent Applications** Springer Nature

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** Springer

This book addresses the true innovation in engineering design that may be promoted by blending together models and methodologies from different disciplines, and, in this book, the target was exactly to follow this approach to deliver a new disruptive architecture to deliver these next-generation mobile small cell technologies. According to this design philosophy, the work within this book resides in the intersection of engineering paradigms that includes "cooperation", "network coding", and "smart energy-aware frontends". These technologies will not only be considered as individual building blocks, but re-engineered according to an inter-design approach resulting in the enabler for energy efficient femtocell-like services on the move. The book aims to narrow the gap between the current networking technologies and the foreseen requirements that are targeted at the future development of the 5G mobile and wireless communications networks in terms of the higher networking capacity, the ability to support more users, the lower cost per bit, the enhanced energy efficiency, and adaptability to new services and devices (for example, smart cities, and the Internet of things (IoT)).

**Microstrip Patch Antennas: A Designer's Guide** ScholarlyEditions

This book covers diverse aspects of advanced computer and communication engineering, focusing specifically on industrial

and manufacturing theory and applications of electronics, communications, computing and information technology. Experts in research, industry, and academia present the latest developments in technology, describe applications involving cutting-edge communication and computer systems and explore likely future directions. In addition, access is offered to numerous new algorithms that assist in solving computer and communication engineering problems. The book is based on presentations delivered at ICOCOE 2014, the 1st International Conference on Communication and Computer Engineering. It will appeal to a wide range of professionals in the field, including telecommunication engineers, computer engineers and scientists, researchers, academics and students.

#### **Multifunctional and Multiband Planar Antennas for Emerging Wireless Applications** Springer Nature

This book introduces 5 key feeding techniques such as coaxial probe, microstrip, conformal strip, aperture, and coplanar waveguide and covers different shapes of dielectric resonator antennas leading to improvement in circularly polarized (CP) performance. It introduces advancements in the field of dielectric resonator antennas and dielectric resonator antennas (DRAs). Five different types of feeding techniques (i.e. coaxial probe, microstrip, conformal strip, aperture, and coplanar waveguide) are described for obtaining CP followed by two modified shaped DRA (sector DRAs). Throughout this book, rectangular and circular with their modified shapes of the dielectric resonator are utilized, providing differing degrees of freedom as well as different variable parameters, including length, width, height, radius, aspect ratio and dielectric constant, which are tuned to obtain the desired antenna parameters.

Artech House

The book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It contains original research works presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2018), organised by GVP College of Engineering (A), Andhra Pradesh, India. The respective papers were written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes from all over the world, and share the latest breakthroughs in and promising solutions to the most important issues facing today's society.

**Issues in Electronic Circuits, Devices, and Materials: 2011 Edition** Springer

This book presents selected papers from 1st International Conference on Optical and Wireless Technologies, providing insights into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. It explores the combined use of various optical and wireless technologies in next-generation networking applications, and discusses the latest developments in applications such as photonics, high-speed communication systems and networks, visible light communication, nanophotonics, and wireless and multiple-input-multiple-output (MIMO) systems. The book will serve as a valuable reference resource for academics and researchers across the globe.

#### **Transparent and Flexible MIMO Antenna Technologies for 5G Applications** IGI Global

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

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