
Anslys Hfss For Antenna Simulation

Advances in Microwave Engineering

Antenna Design for CubeSats

Millimeter Wave Antennas for 5G Mobile Terminals and Base Stations

Microstrip Antenna Design Handbook

Proceedings of the Seventh Asia International Symposium on Mechatronics

Innovations in Electronics and Communication Engineering

Proceedings of Third International Conference on Computational Electronics for Wireless Communications

Silicon Carbide Biotechnology

Brain and Human Body Modeling

Proceedings of International Conference on Recent Advancement on Computer and Communication

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Design and Applications of Active Integrated Antennas

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Antenna and Sensor Technologies in Modern Medical Applications

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Array and Wearable Antennas

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Antenna and EM Modeling with MATLAB Antenna Toolbox
Disruptive technologies in Computing and Communication Systems
DESIGN OF TRI-BAND L SHAPED PARASITIC PATCH ANTENNA
Wearable Systems and Antennas Technologies for 5G, IOT and Medical Systems
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The Role of IoT and Blockchain
Proceedings of Sixth International Congress on Information and Communication Technology
Optical and Wireless Technologies
A Glimpse Beyond 5G in Wireless Networks
ANTENNA THEORY AND DESIGN, REVISED ED
Recent Trends in Communication and Electronics
Antennas

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ATKINSON SCHNEIDER

Advances in Microwave Engineering
Springer Nature

This book gathers the latest research findings on emerging trends in 5G and beyond wireless systems. The authors present and assess different enabling technologies, capabilities, and anticipated communications and computing solutions for 5G and beyond. Topics discussed include new frequency bands, new

multiple antenna systems, massive D2D connectivity, new network deployment, and more. These discussions help the readers to understand more advanced research materials for developing new ideas to make a contribution in this field for themselves. This book aims to serve as a virtual and effective bridge between academic research in theory and engineering development in practice. Students, professional, and practitioners who seek to learn the latest development in wireless technologies should find interest in this book.

Antenna Design for CubeSats John Wiley &

Sons

This book presents best selected papers presented at the International Conference on Evolving Technologies for Computing, Communication and Smart World (ETCCS 2020) held on 31 January–1 February 2020 at C-DAC, Noida, India. It is co-organized by Southern Federal University, Russia; University of Jan Wyżykowski (UJW), Polkowice, Poland; and CSI, India. C-DAC, Noida received funding from MietY during the event. The technical services are supported through EasyChair, Turnitin, MailChimp and IAC Education. The book includes current research works in the

areas of network and computing technologies, wireless networks and Internet of things (IoT), futuristic computing technologies, communication technologies, security and privacy.

Millimeter Wave Antennas for 5G Mobile Terminals and Base Stations Springer

Nature

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.

Microstrip Antenna Design Handbook

Springer Nature

Market_Desc: · Advance courses in Antenna Theory and Design courses for

seniors and first year graduate students in Electrical Engineering Special Features: · Provides fundamental methods of analysis that can be used to predict the electromagnetic behavior of nearly everything that radiates· Provides insightful examples of the application of theory to real design problems. It is beautifully and clearly written and is of the highest technical quality· This is the leading text on antenna arrays and the author is the leading researcher in this field. The text frequently refers to the historical development of antennas, which no other text does About The Book: This text is the classic work in *Antenna Theory and Design* and is just as relevant to the field today as it was when first published in 1981. It provides an analytic treatment, with supporting experimental evidence, of the major topics of concern to antenna designers. This is a broad-ranging text that covers most of the relevant topics in antenna theory providing fundamental methods of analysis that can be used to predict the electromagnetic behavior of nearly everything that radiates. This stress on the fundamentals is what makes the text valuable twenty-one years after its

first publication. It not only presents the theory, but goes on to show very insightful examples of its application to real design problems.

Proceedings of the Seventh Asia International Symposium on Mechatronics CRC Press

This book discusses terahertz (THz) wireless communication, particularly for 6G enabling technologies, including antenna design, and channel modeling with channel characteristics for the success of reliable 6G wireless communication. The authors describe THz microstrip antenna technologies with different substrates and introduce some useful substrates to reduce the conductor and substrate losses at the THz frequencies. The discussion also includes the design of the THz unit-cell microstrip antenna and the techniques to boost the microstrip antennas' gain, directivity, and impedance bandwidth (BW), which influence the wireless communication range which is highly affected by the path losses of atmospheric conditions, and transmit and receive data rates, respectively. Moreover, this book discusses the multi-beam and

beamforming THz antenna technologies with the multi-user-multiple-input-multiple-output (MU-MIMO) features. Additionally, this book describes the reconfigurable capabilities, artificial intelligence, machine learning, and deep learning technologies that will influence the success of 6G wireless communication and the authors suggest a remedy for integrating multiple radios into the system-on-chip (SoC) design.

Innovations in Electronics and Communication Engineering Springer Nature

This book covers a variety of topics in Electronics and Communication Engineering, especially in the area of microelectronics and VLSI design, communication systems and networks, and signal and image processing. The content is based on papers presented at the 5th International Conference on VLSI, Communication and Signal Processing (VCAS 2022). The book also discusses the emerging applications of novel tools and techniques in image, video, and multimedia signal processing. This book is useful to students, researchers, and professionals working in the electronics

and communication domain.

Proceedings of Third International Conference on Computational Electronics for Wireless Communications CRC Press

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.

Silicon Carbide Biotechnology Springer Nature

Antennas are essential part of every

wireless communication system. The increasing trend of applications in the radio frequency (RF) and millimeter wave frequency spectrum has reduced the antenna sizes to only a few millimeters, which makes it practical for on-chip implementations. Integrated Circuit (IC) designers who have traditionally remained isolated from antenna design now need to understand its design process and trade-offs. This comprehensive resource addresses the challenges, benefits and trade-offs of on-chip antenna implementation. It presents practical design and integration considerations of the IC and antenna combination and how both ends of the system can be utilized in a complimentary way. The book includes on-chip antenna layout considerations, layout for testability and various methods of their characterization. A look at the future trends and utilization of on-chip antennas for different applications concludes the book.

Brain and Human Body Modeling Archers & Elevators Publishing House

Mechanics of Composite, Hybrid, and Multifunctional Materials, Volume 5 of the Proceedings of the 2019 SEM Annual

Conference & Exposition on Experimental and Applied Mechanics, the fifth volume of six from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on a wide range of areas, including: Recycled Constituent Composites Damage Detection Advanced Imaging of Composites Multifunctional Materials Composite Interfaces Tunable Composites Proceedings of International Conference on Recent Advancement on Computer and Communication Springer Nature

This book gathers selected high-quality research papers presented at the Sixth International Congress on Information and Communication Technology, held at Brunel University, London, on February 25–26, 2021. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies.

The book is presented in four volumes. International Conference on Innovative Computing and Communications Archers & Elevators Publishing House

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.

Design and Applications of Active Integrated Antennas CRC Press

The Department of Electronics and Communication Engineering of KIET Group of Institutions, Delhi-NCR organized the 4th International Conference ICCE-2020 during November 28-29, 2020. Information compiled in this book is based on the 114 research papers of excellent quality covering different domains of Electronics and Communication Engineering, Computer Science Engineering,

Information Technology, Electrical Engineering, Electronics and Instrumentation Engineering. The subject areas treated in the book are: Satellite, Radar and Microwave Techniques, Secure, Smart, and Reliable Networks, Next Generation Networks, Devices & Circuits, Signal & Image Processing, New Emerging Technologies, having the central focus on Recent Trends in Communication & Electronics (ICCE-2020). In addition, a few themes based on Special Sessions have also been conducted in ICCE-2020. The objective of the book resulting from the 4th International Conference on Recent Trends in Communication & Electronics (ICCE-2020) is to provide a resource for the study and research work for an interested audience comprising of researchers, students, audience, and practitioners in the areas of Communications & Computing Systems.

Mobile Radio Communications and 5G Networks Springer Nature

The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017) organized by IMPLab Research and Innovation

Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital signal processing, digital electronics, telecommunication technologies, robotics, VLSI technologies, embedded system, satellite communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and research.

Microstrip Antenna Design for Wireless Applications Artech House

A CubeSat is a miniaturized modular satellite that can be constructed from off-the-shelf components. With advancements in digital signal processing, power electronics, and packaging technology, it is feasible to fit science instruments and communication devices that were traditionally carried on larger satellites on CubeSat constellations. This not only reduces mission cost, repair, risk, but also

provides more precise and real-time science data. Their low cost and versatility allow for CubeSats to be used to test technologies that are planned to use on larger satellites, to collect point-to-point data in space when launched as CubeSat constellations, or to monitor health of larger spacecrafts. This comprehensive reference explores CubeSat standards, launching methods, and detailed design guidelines for antennas specially made for CubeSat applications. Deployed CubeSat antennas, such as low gain antennas, high gain wire-based antennas, and horn and dish antennas as they relate to the technology are explored. Conformal CubeSat Antennas, including those that are independent of CubeSats and those integrated in CubeSat solar panels, are discussed. An antenna design guideline is provided to demonstrate the basics of a CubeSat link budget, which is transitionally published in signal and system community. Written by an expert in the field, this book enables readers to read antenna specifics when choosing communication front-end.

Antenna and Sensor Technologies in Modern Medical Applications Springer

Nature

The text highlights the designing of efficient, wearable, and textile antennas for medical and wireless applications. It further discusses antenna design for the Internet of Things, biomedical, and 5G applications. The book presents machine learning and deep learning techniques for antenna design and analysis. It also covers radio frequency, micro-electromechanical systems, and nanoelectromechanical systems devices for smart antenna design. This book: Explores wearable reconfigurable antennas for wireless communication and provide the latest technique in term of its structure, defective ground plane, and fractal design Focuses on current and future technologies related to antenna design, and channel characterization for different communication links, and applications Discusses machine learning techniques for antenna design and analysis Demonstrates how nano patch antenna resonates at multiple frequencies by varying the chemical potential Covers the latest antenna technology for microwave sensors, and for fiber optical sensor communications It is primarily for senior

undergraduate, graduate students, and academic researchers in the fields of electrical engineering, electronics and communications engineering.

Antennas for Small Mobile Terminals

John Wiley & Sons

This volume provides informative chapters on the emerging issues, challenges, and new methods and state-of-the-art technologies on the Internet of Things and blockchain technology. It presents case studies and solutions that can be applied in the current business scenario, resolving challenges and providing solutions by integrating IoT with blockchain technology. The chapters discuss how the Internet of Things (IoT) represents a revolution of the Internet that can connect nearly all environment devices over the Internet to share data to create novel services and applications for improving quality of life. Although the centralized IoT system provides countless benefits, it raises several challenges. The volume presents IoT techniques and methodologies, blockchain techniques and methodologies, and case studies and applications for data mining algorithms, heart rate monitoring, climate prediction, disease prediction,

security issues, automotive supply chains, voting prediction, forecasting particulate matter pollution, customer relationship management, and more.

VLSI, Communication and Signal Processing

CRC Press

This book discusses antenna designs for handheld devices as well as base stations. The book serves as a reference and a handy guide for graduate students and PhD students involved in the field of millimeter wave antenna design. It also gives insights to designers and practicing engineers who are actively engaged in design of antennas for future 5G devices. It offers an in-depth study, performance analysis and extensive characterization of novel antennas for 5G applications. The reader will learn about basic design methodology and techniques to develop antennas for 5G applications including concepts of path loss compensation, co-design of commercial 4G antennas with millimeter wave 5G antennas and antennas used in phase array and pattern diversity modules. Practical examples included in the book will help readers to build high performance antennas for 5G subsystems/systems using low cost

technology. Key Features Provides simple design methodology of different antennas for handheld devices as well as base stations for 5G applications. Concept of path loss compensation introduced. Co-design of commercial 4G antennas with millimetre wave 5G antennas presented. Comparison of phased array versus pattern diversity modules discussed in detail. Fabrication and Measurement challenges at mmWaves and Research Avenues in antenna designs for 5G and beyond presented. Shiban Kishen Koul is an emeritus professor at the Centre for Applied Research in Electronics at the Indian Institute of Technology Delhi. He served as the chairman of Astra Microwave Products Limited, Hyderabad from 2009-2018. He is a Life Fellow of the Institution of Electrical and Electronics Engineering (IEEE), USA, a Fellow of the Indian National Academy of Engineering (INAE), and a Fellow of the Institution of Electronics and Telecommunication Engineers (IETE). Karthikeya G S worked as an assistant professor in Visvesvaraya technological university from 2013 to 2016 and completed his PhD from the Centre for Applied Research in Electronics at the

Indian Institute of Technology Delhi in Dec.2019. He is a member of IEEE-Antenna Propagation Society and Antenna Test and Measurement society.

Antenna Technology for Terahertz

Wireless Communication CRC Press

With the progress and rapid increase in mobile terminals, the design of antennas for these small systems is becoming more and more important. This forward-looking volume offers professionals current and comprehensive coverage of the design, development, and implementation of small, compact, and lightweight antennas in mobile communication terminals. The book discusses a wide range of communication systems, from Radio-frequency identification (RFID), and near field communications (NFC), to wireless power transmission (WPT) and broadband wireless networks. Engineers learn how to use small antennas in mobile phones, wearable systems, laptop computers, radio watches, and broadband wireless networks such as WLAN and WiMAX. This definite reference covers the critical applications today's professionals need to understand, from antennas for IoT and antenna design for 5G mm-wave devices,

to body-centric communication systems and antennas for unmanned aerial vehicles.

DESIGN AND ANALYSIS OF C-BAND ANTENNA BASED ON FSS USING HFSS

Springer Nature

This book presents high-quality papers from the Seventh Asia International Symposium on Mechatronics (AISM 2019). It discusses the latest technological trends and advances in electromechanical coupling and environmental adaptability design for electronic equipment, sensing and measurement, mechatronics in manufacturing and automation, micro-mechatronics, energy harvesting & storage, robotics, automation and control systems. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed here provide excellent reference material for future product developments.

Radar and RF Front End System Designs for Wireless Systems Springer

Silicon Carbide Biotechnology: A Biocompatible Semiconductor for Advanced Biomedical Devices and

Applications, Second Edition, provides the latest information on this wide-band-gap semiconductor material that the body does not reject as a foreign (i.e., not organic) material and its potential to further advance biomedical applications. SiC devices offer high power densities and low energy losses, enabling lighter, more compact, and higher efficiency products for biocompatible and long-term in vivo applications, including heart stent coatings, bone implant scaffolds, neurological implants and sensors, glucose

sensors, brain-machine-interface devices, smart bone implants, and organ implants. This book provides the materials and biomedical engineering communities with a seminal reference book on SiC for developing technology, and is a resource for practitioners eager to identify and implement advanced engineering solutions to their everyday medical problems for which they currently lack long-term, cost-effective solutions. - Discusses the properties, processing, characterization, and application of silicon

carbide biomedical materials and related technology - Assesses literature, patents, and FDA approvals for clinical trials, enabling rapid assimilation of data from current disparate sources and promoting the transition from technology R&D, to clinical trials - Includes more on applications and devices, such as SiC nanowires, biofunctionalized devices, micro-electrode arrays, heart stent/cardiovascular coatings, and continuous glucose sensors, in this new edition

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