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# Monopole Antenna Design Using Hfss

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Microstrip Antenna Design for Wireless Applications  
Proceedings of 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications  
Design and Optimization of Wearable, Implantable, and Edible Antennas  
Design and Applications of Active Integrated Antennas  
Control and Information Sciences  
Proceeding of International Conference on Intelligent Communication, Control and Devices  
WiMAX  
Advances in VLSI, Communication, and Signal Processing  
DESIGN AND ANALYSIS OF C-BAND ANTENNA BASED ON FSS USING HFSS  
Antenna-on-Chip: Design, Challenges, and Opportunities  
4th International Workshop on Wearable and Implantable Body Sensor Networks (BSN 2007)  
Antenna Fundamentals for Legacy Mobile Applications and Beyond  
Printed Antennas  
Progress in Compact Antennas  
Advanced Electrical and Electronics Engineering  
Advances in Signal and Data Processing

Intelligent Systems and Smart Infrastructure  
Microelectronic Devices, Circuits and Systems  
Intelligent Manufacturing and Energy  
Sustainability  
International Conference on Intelligent Computing  
and Smart Communication 2019  
ICT Infrastructure and Computing  
Antenna Design for Narrowband IoT: Design,  
Analysis, and Applications  
Communication and Intelligent Systems  
Metamaterial Technology and Intelligent  
Metasurfaces for Wireless Communication  
Systems  
Data Engineering for Smart Systems  
Antenna Design for CubeSats  
Digital Convergence in Antenna Design  
Soft Computing and Signal Processing  
Second International Conference on Computer  
Networks and Communication Technologies  
Wireless and Satellite Systems  
Smart Antennas  
Broadband Microstrip Antennas  
Advances in Computing, Communication,  
Automation and Biomedical Technology  
Communications, Signal Processing, and Systems  
Printed Antennas for Wireless Communications  
Broadband Planar Antennas  
International Conference on Innovative  
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New Developments and Applications in Sensing  
Technology  
Circularly Polarized Antennas

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## **MILA JULISSA**

*Microstrip  
Antenna  
Design for  
Wireless  
Applications*  
DESIGN AND  
ANALYSIS OF  
C-BAND  
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BASED ON FSS  
USING HFSS

This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Fourth International

Conference on Soft Computing and Signal Processing (ICSCSP 2021). The book covers topics such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning and discusses various aspects of these topics, e.g., technological considerations, product implementation and application issues. Proceedings of 2nd

International Conference on Micro-Electronics, Electromagnetics and Telecommunications Artech House 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. Design and Optimization of Wearable, Implantable, and Edible Antennas John Wiley & Sons 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 undergraduat

e and beginning graduate levels, and those of practicing engineers. **Design and Applications of Active Integrated Antennas** Springer Nature 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. Control and Information Sciences Artech House This book gathers high-quality research papers presented at the First International Conference, ICSC 2019, organised by THDC Institute of Hydropower Engineering

and Technology, Tehri, India, from 20 to 21 April 2019. The book is divided into two major sections - Intelligent Computing and Smart Communication. Some of the areas covered are Parallel and Distributed Systems, Web Services, Databases and Data Mining Applications, Feature Selection and Feature Extraction, High-Performance Data Mining Algorithms,

Knowledge Discovery, Communication Protocols and Architectures, High-speed Communication, High-Voltage Insulation Technologies, Fault Detection and Protection, Power System Analysis, Embedded Systems, Architectures, Electronics in Renewable Energy, CAD for VLSI, Green Electronics, Signal and Image Processing, Pattern Recognition and Analysis,

Multi-Resolution Analysis and Wavelets, 3D and Stereo Imaging, and Neural Networks.

**Proceeding of International Conference on Intelligent Communication, Control and Devices**

Springer Science & Business Media

This book has focussed on different aspects of smart sensors and sensing technology, i.e. intelligent measurement, information processing,

adaptability, recalibration, data fusion, validation, high reliability and integration of novel and high performance sensors in the areas of magnetic, ultrasonic, vision and image sensing, wireless sensors and network, microfluidic, tactile, gyro, flow, surface acoustic wave, humidity and ultra-wide band. While future interest in this field is ensured by the constant supply of emerging

modalities, techniques and engineering solutions, as well as an increasing need from aging structures, many of the basic concepts and strategies have already matured and now offer opportunities to build upon. The book has primarily been focussed for postgraduate and research students working on different aspects of design and developments of smart sensors and sensing

<p>technology.  <i>WiMAX</i>          Springer          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.</p>	<p>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</p>	<p>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</p>
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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. Advances in VLSI, Communication, and Signal Processing Springer Nature This comprehensive new resource guides professionals in the latest methods used when designing active integrated antennas (AIA) for wireless communication devices for various

standards. This book provides complete design procedures for the various elements of such active integrated antennas such as the matching network, the amplifier/active element as well as the antenna. This book offers insight into how active integration and co-design between the active components (amplifier, oscillator, mixer, diodes) and the antenna can provide better

power transfer, higher gains, increased efficiencies, switched beam patterns and smaller design footprints. It introduces the co-design approach of active integrated antennas and its superior performance over conventional methods. Complete design examples are given of active integrated antenna systems for narrow and wideband applications as well as for

multiple-input-multiple-output (MIMO) systems. Readers find the latest design methods for narrow and broadband RF matching networks. This book provides a complete listing of performance metrics for active integrated antennas. The book serves as a complete reference and design guide in the area of AIA.

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

## **HFSS**

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 complementary 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. *Antenna-on-Chip: Design, Challenges, and Opportunities* Springer Nature 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. *4th International Workshop on Wearable and Implantable Body Sensor Networks (BSN 2007)* CRC Press This book brings together papers from the 2018 International Conference on Communications, Signal Processing, and Systems, which was held in Dalian, China on July

14-16, 2018. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics ranging from communications, signal processing and systems. It is aimed at undergraduate and graduate electrical engineering, computer science and mathematics students, researchers and engineers from academia and industry as well as government employees. *Antenna Fundamentals for Legacy Mobile Applications and Beyond* Artech House This book features original papers from the 3rd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2021), organized by Manipal University, Jaipur, India, during January 22-23, 2021. It discusses scientific works related to data engineering in the context of computational collective intelligence consisted of interaction between smart devices for smart environments and interactions. Thanks to the high-quality content and the broad range of topics covered, the book appeals to researchers pursuing advanced studies. Printed Antennas Springer Nature The demand

for integration of smart devices into our daily lives has led to a pressing challenge – the effective design and optimization of antennas for wearable and implantable applications. As our reliance on interconnected devices grows, so does the need for antennas that transcend their conventional roles and adapt to the diverse, dynamic needs of users. Addressing

these challenges is vital, considering the unique demands imposed by this technology, ranging from size constraints to energy efficiency, biocompatibility, and signal integrity. Design and Optimization of Wearable, Implantable, and Edible Antennas, is an innovative work that confronts these challenges head-on. In this exploration, the book

sheds light on the evolving landscape where electromagnetic research intersects with the demands of human life. As antennas seamlessly weave into attire, revolutionize healthcare through implants, and even find their place in edibles, this book serves as a guide for academic scholars, researchers, engineers, and students navigating the intricate terrain of antenna engineering.

*Progress in Compact Antennas* Springer Nature This book constitutes the proceedings of the 8th International Conference on Wireless and Satellite Services, WiSATS 2016, held in Cardiff, UK, in September 2016. The conference was formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. As the scope of the conference widened to include wireless systems, the conference was renamed WiSATS. The 22 revised papers were selected from 32 submissions and cover a broad range of related state-of-the-art topics in antennas and mobile terminals, symbol precoding and network coding schemes, energy efficient strategies in satellite communication and cloud radio access networks, smart grid communication and optimization, security issues in vehicular ad-hoc networks (VANET) and delay tolerant networks (DTN), interference mitigation in high throughput geostationary and non-geostationary satellite systems. CRC Press The book presents high-quality research

papers presented at the first international conference, ICICCD 2016, organised by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 2nd and 3rd April, 2016. The book is broadly divided into three sections: Intelligent Communication, Intelligent Control and Intelligent Devices. The areas covered under these

sections are wireless communication and radio technologies, optical communication, communication hardware evolution, machine-to-machine communication networks, routing techniques, network analytics, network applications and services, satellite and space communication, technologies for e-communication, wireless Ad-Hoc and sensor

networks, communications and information security, signal processing for communications, communication software, microwave informatics, robotics and automation, optimization techniques and algorithms, intelligent transport, mechatronics system, guidance and navigation, algorithms, linear/non-linear control, home automation, sensors, smart cities, control



systems, high performance computing, cognition control, adaptive control, distributed control, prediction models, hybrid control system, control applications, power system, manufacturing , agriculture cyber physical system, network control system, genetic control based, wearable devices, nano devices, MEMS, bio-inspired computing, embedded

and real-time software, VLSI and embedded systems, FPGA, digital system and logic design, image and video processing, machine vision, medical imaging, and reconfigurable computing systems. Advanced Electrical and Electronics Engineering Springer Nature Look to this new, cutting-edge microstrip antenna book for the first exhaustive coverage of

broadband techniques, including the most up-to-date information to help you choose and design the optimum broadband microstrip antenna configurations for your applications, without sacrificing other antenna parameters. The book shows you how to take advantage of the lightweight, low volume benefits of these antennas, by providing clear

explanations of the various configurations and simple design equations that help you analyze and design microstrip antennas with speed and confidence.

**Advances in Signal and Data Processing**

CRC Press  
Advances in Computing, Communication, Automation and Biomedical Technology aims to bring together leading academic, scientists, researchers, industry

representative s, postdoctoral fellows and research scholars around the world to share their knowledge and research expertise, to advances in the areas of Computing, Communication, Electrical, Civil, Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas. It also provides a premier interdisciplinary

y platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of innovation.

**Intelligent Systems and Smart Infrastructure**

John Wiley & Sons  
This book presents new communication and networking technologies, an area that has gained

significant research attention from both academia and industry in recent years. It also discusses the development of more intelligent and efficient communication technologies, which are an essential part of current day-to-day life, and reports on recent innovations in technologies, architectures, and standards relating to these technologies. The book includes research that

spans a wide range of communication and networking technologies, including wireless sensor networks, big data, Internet of Things, optical and telecommunication networks, artificial intelligence, cryptography, next-generation networks, cloud computing, and natural language processing. Moreover, it focuses on novel solutions in the context of

communication and networking challenges, such as optimization algorithms, network interoperability, scalable network clustering, multicasting and fault-tolerant techniques, network authentication mechanisms, and predictive analytics.

**Microelectronic Devices, Circuits and Systems**  
Springer  
DIGITAL CONVERGENCE in ANTENNA DESIGN The latest addition to this series

presents high-quality original research contributions on analytical and practical models and ideas in the field of antennas, including a thorough look at RF techniques like antennas, RFID, and filters with special emphasis on real-time applications like e-health, RADAR, and mobile and satellite communications. This book is intended to disseminate recent trends in antenna

designs for real-time applications that leverage digital convergence. The book intends to report the latest research findings, as well as the state-of-the-art RF techniques related to antennas, RFID, filters, etc., with special emphasis on real-time applications like e-health, RADAR, and mobile and satellite communications. The book can be used as a reference

for researchers who want to explore the convergence of AI/ML/DL, big data, and IoT in the areas of antenna and advanced communication technologies for real-time applications. These real-time applications can include e-healthcare, intelligent transportation, aerospace, retail, manufacturing, industrial plants, and defense products where communications play a

major role. **Intelligent Manufacturing and Energy Sustainability** Springer Nature. This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems (ICCIS 2020), organized jointly by Birla Institute of Applied Sciences, Uttarakhand, and Soft Computing Research Society during 26–27 December 2020. This book presents a collection of state-of-the-art research work involving cutting-edge technologies for communication and intelligent systems. Over the past few years, advances in artificial intelligence and machine learning have sparked new research efforts around the globe, which explore novel ways of developing intelligent systems and smart communication technologies. The book presents single- and multi-disciplinary research on these themes in order to make the latest results available in a single, readily accessible source.

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