



# Design Of Pifa Antenna For Medical Applications

**Yahya Rahmat-Samii, Jaehoon Kim**



## **Design Of Pifa Antenna For Medical Applications:**

**Design and Optimization of Wearable, Implantable, and Edible Antennas** Kavitha, K., Sabapathy, Thennarasan, Rajeshkumar, V., 2024-08-16 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 Antennas for Industrial and Medical Applications with Optimization Techniques for Wireless Communication S. Kannadhasan, R. Nagarajan, 2024-12-30 The text begins by covering the fundamental concepts and new advances in the field of antenna theory antenna hardware and propagation It further explains the designing of metamaterials microstrip patch antennas for medical applications photonic crystals of millimeter wave signals for 5G communications dual band miniaturized circular antennas for wireless networks and ultra thin compact flexible antennas for wearable applications This book Presents the design and development of S shaped and T shaped microstrip path antennas for industrial applications Highlights the use of W shaped and metamaterials microstrip patch antennas for medical applications Covers photonic crystals of millimeter wave signals for 5G communications Showcases the importance of compact and wideband slot antenna for wireless communications Illustrates the design of an ultra thin compact flexible antenna for wearable applications It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering antenna design and microwave engineering Antenna Design for Narrowband IoT: Design, Analysis, and Applications Pattanaik, Balachandra, Saravanan, M., Saravanakumar, U., T R, Ganesh Babu, 2022-03-11 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      **Manufacturing Engineering and Materials Science** Abhineet Saini, B. S. Pabla, Chander Prakash, Gurmohan Singh, Alokesh Pramanik, 2023-11-15 This book which is part of a two volume handbook set gives a comprehensive description of recent developments in materials science and manufacturing technology aiming primarily at its applications in biomedical science advanced engineering materials conventional non conventional manufacturing techniques sustainable engineering design and related domains Manufacturing Engineering and Materials Science Tools and Applications provides state of the art research conducted in the fields of technological advancements in surface engineering tribology additive manufacturing precision manufacturing electromechanical systems and computer assisted design and manufacturing The book captures emerging areas of materials science and advanced manufacturing engineering and presents the most recent trends in research for emerging researchers field engineers and academic professionals      **Handbook of Biomedical Telemetry** Konstantina S. Nikita, 2014-07-28 A must have compendium on biomedical telemetry for all biomedical professional engineers researchers and graduate students in the field Handbook of Biomedical Telemetry describes the main components of a typical biomedical telemetry system as well as its technical challenges Written by a diverse group of experts in the field it is filled with overviews highly detailed scientific analyses and example applications of biomedical telemetry The book also addresses technologies for biomedical sensing and design of biomedical telemetry devices with special emphasis on powering integration issues and materials for biomedical telemetry applications Handbook of Biomedical Telemetry Describes the main components of a typical biomedical telemetry system along with the technical challenges Discusses issues of spectrum regulations standards and interoperability while major technical challenges related to advanced materials miniaturization and biocompatibility issues are also included Covers body area electromagnetics inductive coupling antennas for biomedical telemetry intra body communications non RF communication links for biomedical telemetry optical biotelemetry as well as safety issues human phantoms and exposure assessment to high frequency biotelemetry fields Presents biosensor network topologies and standards context aware sensing and multi sensor fusion security and privacy issues in biomedical telemetry and the connection between biomedical telemetry and telemedicine Introduces clinical applications of Body Sensor Networks BSNs in addition to selected examples of wearable implantable ingestible devices stimulator and integrated mobile healthcare system paradigms for monitoring and therapeutic intervention Covering biomedical telemetry devices biosensor network topologies and standards clinical applications wearable and implantable devices and the effects on the mobile healthcare system this compendium is a must have for professional engineers researchers and graduate students      **Wearable and Neuronic Antennas for Medical**

**and Wireless Applications** Arun Kumar, Manoj Gupta, Mahmoud A. Albreem, Dac-Binh Ha, Er. Mohit Kumar Sharma, 2022-04-29

**WEARABLE AND NEURONIC ANTENNAS FOR MEDICAL AND WIRELESS APPLICATIONS** This new volume in this exciting new series written and edited by a group of international experts in the field covers the latest advances and challenges in wearable and neuronics antennas for medical and wireless applications. Antenna development and engineering is changing at a rapid pace and it is incredibly important that engineers, scientists and students in the field have a valuable reference work to consult. Students are able to use this book as a learning tool and professors and industrial short courses are able to use it as a textbook. Covering all of the advances and developments of wearable and neuronics antennas for medical and wireless applications, this outstanding new volume offers information not available anywhere else in any other format. Covering new research and development of antenna designs never seen before, this volume written and edited by a team of experts in the field breaks new ground offering new solutions to engineering and scientific problems to experts in the field while providing the full theoretical and conceptual background for the practical applications. Whether for the veteran engineer or scientist, the student or a manager or other technician working in the field, this volume is a must have for any library.

**Wearable Systems and Antennas Technologies for 5G, IOT and Medical Systems** Albert Sabban, 2020-12-08

Due to progress in the development of communication systems, it is now possible to develop low cost wearable communication systems. A wearable antenna is meant to be a part of the clothing or close to the body and used for communication purposes which include tracking and navigation, mobile computing and public safety. Examples include smartwatches with integrated Bluetooth antennas, glasses such as Google Glass with Wi-Fi and GPS antennas, GoPro action cameras with Wi-Fi and Bluetooth antennas etc. They are increasingly common in consumer electronics and for healthcare and medical applications. However, the development of compact, efficient wearable antennas is one of the major challenges in the development of wearable communication and medical systems. Technologies such as printed compact antennas and miniaturization techniques have been developed to create efficient small wearable antennas which are the main objective of this book. Each chapter covers enough mathematical detail and explanations to enable electrical, electromagnetic and biomedical engineers and students and scientists from all areas to follow and understand the topics presented. New topics and design methods are presented for the first time in the area of wearable antennas, metamaterial antennas and fractal antennas. The book covers wearable antennas, RF measurements, techniques and measured results in the vicinity of the human body, setups and design considerations. The wearable antennas and devices presented in this book were analyzed by using HFSS and ADS 3D full wave electromagnetics software. Explores wearable medical systems and antennas. Explains the design and development of wearable communication systems. Explores wearable reconfigurable antennas for communication and medical applications. Discusses new types of metamaterial antennas and artificial magnetic conductors (AMC). Reviews textile antennas. Dr. Albert Sabban holds a PhD in Electrical Engineering from the University of Colorado at Boulder, USA, 1991 and an MBA from the

Faculty of Management Haifa University Israel 2005 He is currently a Senior Lecturer and researcher at the Department of Electrical and Electronic Engineering at Kinneret and Ort Braude Engineering Colleges

**Bioelectronics and Medical Devices** Garima Srivastava, Manju Khari, 2021-12-15 This new volume provides an abundance of information on new biomedical applications being used today The book covers a wide range of concepts and technologies discussing such modern technological methods as the Internet of Things e pills biomedical sensors support vector machines wireless devices image and signal processing in e health and machine learning It also includes a discussion on software implementation for the devices used in biomedical applications The different types of antennas including antennas using RF energy harvesting for biomedical applications are covered as well

Array and Wearable Antennas Puran Gour, Nagendra Singh, Rajesh Kumar Nema, Ravi Shankar Mishra, Ashish Kumar Srivastava, 2024-03-20 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

**Novel Wearable Antennas for Communication and Medical Systems** Albert Sabban, 2017-09-29 Wearable antennas are meant to be incorporated as part of clothing or placed close to the body Wearable antennas can be used in countless communication applications including tracking and navigation medical applications imaging and detection RFID mobile computing and public safety The book Novel Wearable Antennas for Communication and Medical Systems discusses the challenges and technology to develop compact efficient wearable antennas The book begins by presenting elementary communication electromagnetics and antenna topics needed for engineers and students that do not have a background in design principles and features of antennas printed antennas wearable antennas and compact antennas for communication and medical applications Throughout the book each chapter also covers sufficient mathematical details physical details and explanations to enable the reader to follow and understand the topics presented New topics and design methods in the area of wearable antennas metamaterial antennas active printed antennas and fractal antennas for communication and medical systems are presented and discussed throughout the book The book presents computed and measured results in the vicinity of the human body The book also covers topics such as RF

measurement techniques measurement setups and design considerations The antennas developed and analyzed in this book were designed and optimized by using 3D full wave electromagnetics software      **Antennas and Wireless Power Transfer Methods for Biomedical Applications** Yongxin Guo,Yuan Feng,Changrong Liu,2024-03-18 Antennas and Wireless Power Transfer Methods for Biomedical Applications Join the cutting edge of biomedical technology with this essential reference The role of wireless communications in biomedical technology is a significant one Wireless and antenna driven communication between telemetry components now forms the basis of cardiac pacemakers and defibrillators cochlear implants glucose readers and more As wireless technology continues to advance and miniaturization progresses it s more essential than ever that biomedical research and development incorporate the latest technology Antennas and Wireless Power Transfer Methods for Biomedical Applications provides a comprehensive introduction to wireless technology and its incorporation into the biomedical field Beginning with an introduction to recent developments in antenna and wireless technology it analyzes the major wireless systems currently available and their biomedical applications actual and potential The result is an essential guide to technologies that have already improved patient outcomes and increased life expectancies worldwide Readers will also find Authored by internationally renowned researchers of wireless technologies Detailed analysis of CP implantable antennas wearable antennas near field wireless power and more Up to 100 figures that supplement the text Antennas and Wireless Power Transfer Methods for Biomedical Applications is a valuable introduction for biomedical researchers and biomedical engineers as well as for research and development professionals in the medical device industry

**Printed Antennas** Praveen Kumar Malik,Arshi Naim,Ramendra Singh,2022-12-15 This collection covers different printed microstrip antenna designs from rectangular to circular broadband dual band and millimeter wave microstrip antennas to microstrip arrays It further presents a new analysis of the rectangular and circular microstrip antenna efficiency and surface wave phenomena The book Covers the latest advances and applications of microstrip antennas Discusses methods and techniques used for the enhancement of the performance parameters of the microstrip antenna Presents low power wide area network LPWAN proximity coupled antenna for Internet of Things applications Highlights a new analysis of rectangular and circular microstrip antenna efficiency and surface wave phenomena Showcases implantable antennas H shaped antennas and wideband implantable antennas for biomedical applications Printed Antennas discusses the latest advances such as the Internet of Things for antenna applications device to device communication satellite communication and wearable textile antenna in the field of communication It further presents methods and techniques used for the enhancement of the performance parameters of the microstrip antenna and covers the design of conformal and miniaturized antenna structures for various applications It will serve as an ideal reference text for senior undergraduates graduate students and researchers in fields including electrical engineering electronics and communications engineering and computer engineering      **Antenna and Sensor Technologies in Modern Medical Applications** Yahya

Rahmat-Samii, Erdem Topsakal, 2021-02-25 A guide to the theory and recent development in the medical use of antenna technology Antenna and Sensor Technologies in Modern Medical Applications offers a comprehensive review of the theoretical background design and the latest developments in the application of antenna technology Written by two experts in the field the book presents the most recent research in the burgeoning field of wireless medical telemetry and sensing that covers both wearable and implantable antenna and sensor technologies The authors review the integrated devices that include various types of sensors wired within a wearable garment that can be paired with external devices The text covers important developments in sensor integrated clothing that are synonymous with athletic apparel with built in electronics Information on implantable devices is also covered The book explores technologies that utilize both inductive coupling and far field propagation These include minimally invasive microwave ablation antennas wireless targeted drug delivery and much more This important book Covers recent developments in wireless medical telemetry Reviews the theory and design of in vitro in vivo testing Explores emerging technologies in 2D and 3D printing of antenna sensor fabrication Includes a chapter with an annotated list of the most comprehensive and important references in the field Written for students of engineering and antenna and sensor engineers Antenna and Sensor Technologies in Modern Medical Applications is an essential guide to understanding human body interaction with antennas and sensors Advanced Radio Frequency Antennas for Modern Communication and Medical Systems Albert Sabban, 2020-09-23 The main objective of this book is to present novel radio frequency RF antennas for 5G IOT and medical applications The book is divided into four sections that present the main topics of radio frequency antennas The rapid growth in development of cellular wireless communication systems over the last twenty years has resulted in most of world population owning smartphones smart watches I pads and other RF communication devices Efficient compact wideband antennas are crucial in RF communication devices This book presents information on planar antennas cavity antennas Vivaldi antennas phased arrays MIMO antennas beamforming phased array reconfigurable Pabry Perot cavity antennas and time modulated linear array **Nanotechnology: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2014-02-28 Over the past few decades devices and technologies have been significantly miniaturized from one generation to the next providing far more potential in a much smaller package The smallest of these recently developed tools are miniscule enough to be invisible to the naked eye Nanotechnology Concepts Methodologies Tools and Applications describes some of the latest advances in microscopic technologies in fields as diverse as biochemistry materials science medicine and electronics Through its investigation of theories applications and new developments in the nanotechnology field this impressive reference source will serve as a valuable tool for researchers engineers academics and students alike **Internet of Medical Things** Manuel Cardona, Vijender Kumar Solanki, Cecilia E. García Cena, 2021-02-25 Internet of Things IoT has become a valuable tool for connection and information exchange between devices This book provides a brief introduction to this new field focuses on



wearable medical devices and covers the basic concepts by providing the reader with enough information to solve various practical problems This book provides the latest applications experiments fundamentals concepts and cutting edge topics for the ehealth and wearable devices field The book also offers topics related to Security in IoT and Wearable Devices Wearable Devices and Internet of Medical Devices IoMT IoT for Medical Applications and Tools and study cases The book brings new and valuable information to PhD researchers students professors and professionals working in IoT and related fields

Wireless Mobile Communication and Healthcare Konstantina S. Nikita,James C. Lin,Dimitrios I. Fotiadis,Maria-Teresa Arredondo Waldmeyer,2012-05-30 This book constitutes the refereed proceedings of the Second International ICST Conference on Wireless Mobile Communication and Healthcare MobiHealth 2011 held on Kos Island Greece in October 2011 The 60 revised full papers presented were carefully reviewed and selected from more than 80 submissions The papers are organized in 10 sessions and two workshops with topics covering intrabody communications chronic disease monitoring and management ambient assistive technologies implantable and wearable sensors emergency and disaster applications

Implanted Antennas in Medical Wireless Communications Yahya Rahmat-Samii,Jaehoon Kim,2022-06-01 One of the main objectives of this lecture is to summarize the results of recent research activities of the authors on the subject of implanted antennas for medical wireless communication systems It is anticipated that ever sophisticated medical devices will be implanted inside the human body for medical telemetry and telemedicine To establish effective and efficient wireless links with these devices it is pivotal to give special attention to the antenna designs that are required to be low profile small safe and cost effective In this book it is demonstrated how advanced electromagnetic numerical techniques can be utilized to design these antennas inside as realistic human body environment as possible Also it is shown how simplified models can assist the initial designs of these antennas in an efficient manner

**Handbook of Research on Emerging Designs and Applications for Microwave and Millimeter Wave Circuits** Zbitou, Jamal,Hefnawi, Mostafa,Aytouna, Fouad,El Oualkadi, Ahmed,2023-01-23 Microwave and millimeter wave mm wave circuits and systems have been widely employed in various emerging technologies such as 5G and beyond wireless mobile communication systems autonomous driving electronic warfare and radar systems To better understand the benefits challenges and opportunities of this technology further study is required The Handbook of Research on Emerging Designs and Applications for Microwave and Millimeter Wave Circuits describes the latest advances in microwave and mm wave applications and provides state of the art research in the domain of microwave mm wave and THz devices and systems Covering key topics such as antennas circuits propagation and energy harvesting this major reference work is ideal for computer scientists industry professionals researchers academicians practitioners scholars instructors and students

*4th International Conference for Innovation in Biomedical Engineering and Life Sciences* Fatimah Ibrahim,Juliana Usman,Mohd Yazed Ahmad,Norhamizan Hamzah,2024-03-21 This book reports on engineering methods and technologies for biomedical applications It covers sensors and devices for biological and medical

purposes along with their fabrication and testing and advances in engineering technologies such as autonomous systems which can support life science and healthcare in the era of industry 4.0. Based on the proceedings of the 4th International Conference for Innovation in Biomedical Engineering and Life Sciences ICIBEL 2022 held on December 10-13, 2022 in Kuala Lumpur, Malaysia, this book provides researchers and professionals with a timely snapshot of current issues and challenges in the broad field of biomedical engineering. It is aimed at inspiring future research and fostering interdisciplinary and international collaborations in this field and relating ones.

The book delves into Design Of Pifa Antenna For Medical Applications. Design Of Pifa Antenna For Medical Applications is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Design Of Pifa Antenna For Medical Applications, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Design Of Pifa Antenna For Medical Applications.

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## **Design Of Pifa Antenna For Medical Applications Introduction**

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