

Tianjia Sun
Xiang Xie
Zhihua Wang

Wireless Power Transfer for Medical Microsystems

Wireless Power Transfer For Medical Microsystems

**Pablo Pérez-Nicoli, Fernando
Silveira, Maysam Ghovanloo**



Wireless Power Transfer For Medical Microsystems:

Wireless Power Transfer for Medical Microsystems Tianjia Sun,Xiang Xie,Zhihua Wang,2013-06-12 This book provides an in depth introduction to the newest technologies for designing wireless power transfer systems for medical applications The authors present a systematic classification of the various types of wireless power transfer with a focus on inductive power coupling Readers will learn to overcome many challenges faced in the design a wirelessly powered implant such as power transfer efficiency power stability and the size of power antennas and circuits This book focuses exclusively on medical applications of the technology and a batteryless capsule endoscopy system and other real wirelessly powered systems are used as examples of the techniques described Wireless Power Transfer Wenxing Zhong,Dehong Xu,Ron Shu Yuen

Hui,2020-01-14 Focusing on inductive wireless power transfer WPT which relies on coil resonators and power converters this book begins by providing the background and basic theories of WPT which are essential for newcomers to the field Then two major challenges of WPT power transfer distance and efficiency are subsequently addressed and multi resonator WPT systems which not only offer a way to extend power transfer distance but also provide more flexibility are investigated Recent findings on techniques to maximize the power transfer efficiency of WPT systems e g maximum efficiency point tracking are also introduced Without the constraint of cables wireless power transfer WPT is an elegant technique for charging or powering a range of electrical devices e g electric vehicles mobile phones artificial hearts etc Given its depth of coverage the book can serve as a technical guideline or reference guide for engineers and researchers working on WPT

Inductive Links for Wireless Power Transfer Pablo Pérez-Nicoli,Fernando Silveira,Maysam Ghovanloo,2021-07-10 This book presents a system level analysis of inductive wireless power transfer WPT links The basic requirements design parameters and utility of key building blocks used in inductive WPT links are presented followed by detailed theoretical analysis design and optimization procedure while considering practical aspects for various application domains Readers are provided with fundamental yet easy to follow guidelines to help them design high efficiency inductive links based on a set of application specific target specifications The authors discuss a wide variety of recently proposed approaches to achieve the maximum efficiency point such as the use of additional resonant coils matching networks modulation of the load quality factor Q modulation and adjustable DC DC converters Additionally the attainability of the maximum efficiency point together with output voltage regulation is addressed in a closed loop power control mechanism Numerous examples including MATLAB Octave calculation scripts and LTspice simulation files are presented throughout the book This enables readers to check their own results and test variations facilitating a thorough understanding of the concepts discussed The book concludes with real examples demonstrating the practical application of topics discussed Covers both introductory and advanced levels of theory and practice providing readers with required knowledge and tools to carry on from simple to advanced wireless power transfer concepts and system designs Provides theoretical foundation throughout the book to

address different design aspects Presents numerous examples throughout the book to complement the analysis and designs Includes supplementary material numerical and circuit simulation files that provide a hands on experience for the reader Uses real examples to demonstrate the practical application of topics discussed *CMOS IC Design for Wireless Medical and Health Care* Zhihua Wang,Hanjun Jiang,Hong Chen,2013-11-20 This book provides readers with detailed explanation of the design principles of CMOS integrated circuits for wireless medical and health care from the perspective of two successfully commercialized applications Design techniques for both the circuit block level and the system level are discussed based on real design examples CMOS IC design techniques for the entire signal chain of wireless medical and health care systems are covered including biomedical signal acquisition wireless transceivers power management and SoC integration with emphasis on ultra low power IC design techniques **Materials and Technologies for Future**

Advancement Azman Ismail,Fatin Nur Zulkipli,Syajaratunnur Yaakup,Andreas Öchsner,2023-10-07 This book is a platform to publish new progress in the field of materials and technologies that can offer significant developments with the possibility of changing the future These emerging developments will change the way we live now at an unprecedented pace across our society It is important to note that such modern developments are no longer restricted to a single discipline but are the outcome of a multidisciplinary approach which combines many different engineering disciplines This book explores the new technology landscape that will have the direct impact on production related sectors individually and in combination with different disciplines A major driver for this actual research is the efficiency many times connected with a focus on environmental sustainability **Advanced Systems for Biomedical Applications** Olfa Kanoun,Nabil Derbel,2021-07-19

The book highlights recent developments in the field of biomedical systems covering a wide range of technological aspects methods systems and instrumentation techniques for diagnosis monitoring treatment and assistance Biomedical systems are becoming increasingly important in medicine and in special areas of application such as supporting people with disabilities and under pandemic conditions They provide a solid basis for supporting people and improving their health care As such the book offers a key reference guide about novel medical systems for students engineers designers and technicians **Smart Maintenance for Human-Robot Interaction** Bo Xing,Tshilidzi Marwala,2017-09-08 This self contained book written by active researchers presents up to date information on smart maintenance strategies for human robot interaction HRI and the associated applications of novel search algorithms in a single volume eliminating the need to consult scattered resources Unlike other books it addresses maintaining a smart HRI from three dimensions namely hardware cyberware and hybrid asset management covering problems encountered in each through a wide variety of representative examples and elaborated illustrations Further the diverse mathematical models and intelligent systems constructions make the book highly practical It enables readers interested in maintenance robotics and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies At the same time the referenced literature can be used as a roadmap for conducting deeper

researches Wireless Power Transfer Johnson I. Agbinya, 2022-09-01 Wireless Power Transfer is the second edition of a well received first book which published in 2012 It represents the state of the art at the time of writing and addresses a unique subject of great international interest in terms of research Most of the chapters are contributed by the main author though as in the first edition several chapters are contributed by other authors The authors of the various chapters are experts in their own right on the specific topics within wireless energy transfer Compared to the first edition this new edition is more comprehensive in terms of the concepts discussed and the range of current industrial applications which are presented such as those of magnetic induction From the eleven chapters of the first edition this second edition has expanded to twenty chapters More chapters on the theoretical foundations and applications have been included This new edition also contains chapters which deal with techniques for reducing power losses in wireless power transfer systems In this regard specific chapters discuss impedance matching methods frequency splitting and how to deploy systems based on frequency splitting A new chapter on multi dimensional wireless power transfer has also been added The design of wireless power transfer systems based on bandpass filtering approach has been included in addition to the two techniques using couple mode theory and electronic circuits The book has retained chapters on how to increase efficiency of power conversion and induction and also how to control the power systems Furthermore detailed techniques for power relay including applications which were also discussed in the first edition have been updated and kept The book is written in a progressive manner with a knowledge of the first chapters making it easier to understand the later chapters Most of the underlying theories covered in the book are clearly relevant to inductive near field communications robotic control robotic propulsion techniques induction heating and cooking and a range of mechatronic systems International Conference for Innovation in Biomedical Engineering and Life Sciences Fatimah Ibrahim, Juliana Usman, Mas Sahidayana Mohktar, Mohd Yazed Ahmad, 2015-11-26 This volumes presents the proceedings of ICIBEL 2015 organized by the Centre for Innovation in Medical Engineering CIME under Innovative Technology Research Cluster University of Malaya It was held in Kuala Lumpur Malaysia from 6 8 December 2015 The ICIBEL 2015 conference promotes the latest researches and developments related to the integration of the Engineering technology in medical fields and life sciences This includes the latest innovations research trends and concerns challenges and adopted solution in the field of medical engineering and life sciences *Smart system for invasive measurement of biomedical parameters* Bibin John, 2017 Permanent monitoring of blood pressure helps in diagnosis and tracking progress of medical interventions This dissertation details the design fabrication and implementation of tiny wirelessly powered implant devices for detection of endoleaks and occlusion occurring in stent grafts used for treatment of Abdominal Aortic Aneurysm AAA and portal hypertension due to liver cirrhosis Custom fabricated low power application specific integrated circuit ASIC together with pressure sensors and telemetry units for wireless power reception and data transmission form an implant device Using wireless inductive telemetry links these devices achieved a wireless range of 20

cm **Handbook of Biomechatronics** Jacob Segil, 2018-11-29 Handbook of Biomechatronics provides an introduction to biomechatronic design as well as in depth explanations of some of the most exciting and ground breaking biomechatronic devices in the world today Edited by Dr Jacob Segil and written by a team of biomechatronics experts the work begins with broad topics concerning biomechatronic design and components followed by more detailed discussions of specific biomechatronic devices spanning many disciplines This book is structured into three main parts biomechatronic design biomechatronic components and biomechatronic devices The biomechatronic design chapter discusses the history of biomechatronics conceptual design theory biomechatronic design methods and design tools The next section discusses the technologies involved in the following components sensors actuators and control systems The biomechatronic devices chapters contains distinct examples of biomechatronic devices spanning visual prostheses to brain machine interfaces Each chapter presents the development of these biomechatronic devices followed by an in depth discussion of the current state of the art The only book that covers biomechatronic design components and devices in one comprehensive text Accessible for readers in multiple areas of study such as bioengineering computer science electrical engineering mechanical engineering and chemical engineering Includes the most recent and groundbreaking advances and work in the biomechatronics field through industry and academic contributors Recent Developments in Microbiology, Biotechnology and Pharmaceutical Sciences B. Sundaravadivazhagan, Sekar Mohan, Balakrishnaraja Rengaraju, 2025-05-06 The Conference brought together innovative academics and industrial experts in the field of Medical Biological and Pharmaceutical Sciences to a common forum The primary goal of the conference was to promote research and developmental activities in Medical Biological and Pharmaceutical Sciences Another goal was to promote scientific information interchange between researchers developers engineers students and practitioners working in and around the world *Implantable Biomedical Microsystems* Swarup Bhunia, Steve Majerus, Mohamad Sawan, 2015-01-28 Research and innovation in areas such as circuits microsystems packaging biocompatibility miniaturization power supplies remote control reliability and lifespan are leading to a rapid increase in the range of devices and corresponding applications in the field of wearable and implantable biomedical microsystems which are used for monitoring diagnosing and controlling the health conditions of the human body This book provides comprehensive coverage of the fundamental design principles and validation for implantable microsystems as well as several major application areas Each component in an implantable device is described in details and major case studies demonstrate how these systems can be optimized for specific design objectives The case studies include applications of implantable neural signal processors brain machine interface BMI systems intended for both data recording and treatment neural prosthesis bladder pressure monitoring for treating urinary incontinence implantable imaging devices for early detection and diagnosis of diseases as well as electrical conduction block of peripheral nerve for chronic pain management Implantable Biomedical Microsystems is the first comprehensive coverage of bioimplantable system design providing an

invaluable information source for researchers in Biomedical Electrical Computer Systems and Mechanical Engineering as well as engineers involved in design and development of wearable and implantable bioelectronic devices and more generally teams working on low power microsystems and their corresponding wireless energy and data links First time comprehensive coverage of system level and component level design and engineering aspects for implantable microsystems Provides insight into a wide range of proven applications and application specific design trade offs of bioimplantable systems including several major case studies Enables Engineers involved in development of implantable electronic systems to optimize applications for specific design objectives

Selected Topics in Biomedical Circuits and Systems Minkyu Je, Myung Hoon Sunwoo, 2022-09-01 Integrated circuits and microsystems play a vital role in a variety of biomedical applications including life saving changing miniature medical devices surgical procedures with less invasiveness and morbidity low cost preventive healthcare solutions for daily life solutions for effective chronic disease management point of care diagnosis for early disease detection high throughput bio sequencing and drug screening and groundbreaking brain machine interfaces based on a deep understanding of human intelligence In response to such strong demands for biomedical circuits and systems a considerable amount of effort has been devoted to the research and development in this area both by industry and academia over recent years This book which belongs to the Tutorials in Circuits and Systems series provides readers with an overview of new developments in the field of biomedical circuits and systems It covers basic information about system level and circuit level requirements operation principles key factors of considerations and design implementation techniques as well as recent advances in integrated circuits and microsystems for emerging biomedical applications Technical topics covered in this book include Biomedical Microsystem Integration Biomedical Sensor Interface Circuits Neural Stimulation Circuits Wireless Power Transfer Circuits for Biomedical Microsystems Artificial Intelligence Processors for Biomedical Circuits and Systems Neuro Inspired Computing and Neuromorphic Processors for Biomedical Circuits and Systems This book is ideal for personnel in medical devices and biomedical engineering industries as well as academic staff and postgraduate research students in biomedical circuits and systems

Wireless Sensor Networks Philip John Sallis, 2017-10-04 Wireless sensor networks WSNs have emerged as a phenomenon of the twenty first century with numerous kinds of sensor being developed for specific applications The origins of WSNs can however be traced back to the early days of connectivity between computers and their peripherals Work with distributed sensor networks is evidenced in the literature during the latter part of the 1970s continuing in functionality increases in the 1980s and 1990s As a configuration of independent devices in a data communications network WSNs are now pre eminent as working solutions to numerous precision data collection situations where software control of instruments and routing protocols are needed In this book the authors have chosen a selection of specific topics relating to WSNs their design development implementation and function Some operating topics are addressed such as power management data interchange protocols instrument reliability and

system security Other topics are more application oriented where particular hardware and software configurations are described to deliver system solutions for specific needs All are clearly written with considerable detail relating to each of the issues addressed by the authors Each of the chapters provides a rationale for the topic being covered and some general WSN details where appropriate The citations used in the chapters are comprehensively referred to which adds depth to the information being presented

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

Integrated Wireless Power, Data Communication, and Thermal Sensing Systems for Autonomous Multisite Brain Implants Mohammad Javad Karimi, Catherine Dehollain, Alexandre Schmid, 2025-07-21 This book provides professionals in microelectronic implantable bio medical systems an overview of recent techniques in wireless power and data telemetry State of the art techniques are overviewed and original methods presented The book features an up to date overview of CMOS wireless telemetry microelectronics for cortical implants The book gathers all layers of microelectronics wireless power and data transmission for cortical implants discusses them in a critical manner and proposes solutions i e at circuit and systems and system levels This book compiles relevant information into a coherent presentation of the technical issues proposed solutions and their compared efficiency and details the authors original approaches Professionals of microelectronics will find useful and accessible descriptions of the major issues and solutions to wireless telemetry Researchers and professionals in bio medical implantable systems will find fully justified novel methods in power and data telemetry and implantable systems telemetry architectures

Design Technology for Heterogeneous Embedded Systems Gabriela Nicolescu, Ian O'Connor, Christian

Piguet,2012-02-02 Design technology to address the new and vast problem of heterogeneous embedded systems design while remaining compatible with standard More Moore flows i e capable of simultaneously handling both silicon complexity and system complexity represents one of the most important challenges facing the semiconductor industry today and will be for several years to come While the micro electronics industry over the years and with its spectacular and unique evolution has built its own specific design methods to focus mainly on the management of complexity through the establishment of abstraction levels the emergence of device heterogeneity requires new approaches enabling the satisfactory design of physically heterogeneous embedded systems for the widespread deployment of such systems Heterogeneous Embedded Systems compiled largely from a set of contributions from participants of past editions of the Winter School on Heterogeneous Embedded Systems Design Technology FETCH proposes a necessarily broad and holistic overview of design techniques used to tackle the various facets of heterogeneity in terms of technology and opportunities at the physical level signal representations and different abstraction levels architectures and components based on hardware and software in all the main phases of design modeling validation with multiple models of computation synthesis and optimization It concentrates on the specific issues at the interfaces and is divided into two main parts The first part examines mainly theoretical issues and focuses on the modeling validation and design techniques themselves The second part illustrates the use of these methods in various design contexts at the forefront of new technology and architectural developments

Moving Towards Everlasting Artificial Intelligent Battery-Powered Implants Marvellous Moyo,Tawanda Mushiri,2024-10-15 Moving Towards Everlasting Artificial Intelligent Battery Powered Implants presents the development process of new artificial intelligent AI charging systems for battery powered implants that can last for a lifetime after implantation This book introduces new strategies to address the limitations of technologies that have been employed to improve the lifespan of medical implants This book also provides guidelines that medical implant manufacturers can adopt during their product development stages this adds a new dimension of research on medical device implants that can be a game changer for the AI medical implants industry Researchers engineers and graduate students in the elds of biomedical engineering electrical engineering and computer science will find this text helpful as they seek to understand the potential of AI systems to help achieve sustainability in healthcare and make current medical implants relevant in the future Presents basic and advanced concepts in medical implants design Explores various uses of AI and engineering concepts in optimization and enhancement of medical devices Facilitates new approaches in improving patient safety and reliability of medical devices Modeling, Design and Simulation of Systems Mohamed Sultan Mohamed Ali,Herman Wahid,Nurul Adilla Mohd Subha,Shafishuhaza Sahlan,Mohd Amri Md. Yunus,Ahmad Ridhwan Wahap,2017-08-24 This two volume set CCIS 751 and CCIS 752 constitutes the proceedings of the 17th Asia Simulation Conference AsiaSim 2017 held in Malacca Malaysia in August September 2017 The 124 revised full papers presented in this two volume set were carefully reviewed and selected

from 267 submissions The papers contained in these proceedings address challenging issues in modeling and simulation in various fields such as embedded systems symbiotic simulation agent based simulation parallel and distributed simulation high performance computing biomedical engineering big data energy society and economics medical processes simulation language and software visualization virtual reality modeling and Simulation for IoT machine learning as well as the fundamentals and applications of computing

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