

Wireless Power Transfer Via Radiowaves

Peter D. Lund, John Byrne, Reinhard Haas, Damian Flynn

Recent Wireless Power Transfer Technologies via Radio Waves Naoki Shinohara, 2018-04-30 Wireless Power Transfer (WPT) is considered to be an innovative game changing technology. The same radio wave and electromagnetic field theory and technology for wireless communication and remote sensing is applied for WPT. In conventional wireless communication systems, information is carried on a radio wave and is then transmitted over a distance. In WPT however, the energy of the radio wave itself is transmitted over a distance. Wireless communication technology has proven to be extremely useful, however in future it should be even more useful to apply both wireless communication and wireless power technologies together. There are various WPT technologies, e.g. inductive near field WPT, resonance coupling WPT, WPT via radio waves, and laser power transfer. *Recent Wireless Power Transfer Technologies via Radio Waves* focusses on recent technologies and applications of the WPT via radio waves in far field. The book also covers the history, and future, of WPT via radio waves, as well as safety, EMC and coexistence of radio waves for WPT. Technical topics discussed in the book include: Radio Wave Generation, Radio Wave Amplification with Solid States Circuit and Microwave Tubes, Antenna and Beam Forming Technologies, Radio Wave Conversion/Rectification to Electricity, Battery-less Sensor Applications toward Internet of Things (IoT), Solar Power Satellite Application, Safety, EMC, Coexistence of Radio Waves for the WPT. WPT is an old technology based on the basic theory of radio waves, however WPT is also a state-of-the-art technology for the latest applications in IoT, sensor networks, wireless chargers for mobile phones, and solar power satellite. The theory behind these technologies, as well as applications, are explained in this book.

Wireless Power Transfer via Radiowaves Naoki Shinohara, 2014-01-17 Recent advances in Wireless Power Transmission (WPT) technologies have enabled various engineering applications with potential product implementation. WPT can be utilized to charge batteries in various pieces of equipment without the need for a wired connection. Energy can be harvested from ambient RF and microwave radiation and 1 million kW microwaves can be transmitted from space to the ground. This book covers all the theory and technologies of WPT, such as microwave generators with semi-conductors and microwave tubes, antennas, phased arrays, beam efficiency, and rectifiers (rectenna). The authors also discuss coupling WPT. Applications, such as energy harvesting, sensor networks, point-to-point WPT, WPT to moving targets (airplane, vehicle, etc.) and Solar Power Satellite are also presented.

Wireless Power Transfer Naoki Shinohara,2018-06 This book covers the very latest in theory and technology for Wireless Power Transfer (WPT), for both coupling as well as radiative WPT. It describes the theory as well as the technology and applications.

Theory and Technology of Wireless Power Transfer Naoki Shinohara,Nuno Borges Carvalho,Takehiro Imura,Tomoyuki Miyamoto,Kazuhiro Fujimori,Alessandra Costanzo,2024-03-29 Shinohara and co-authors present a comprehensive and in-depth discussion of all current wireless power transfer (WPT) methods and meet the growing need for a detailed understanding of the advantages, disadvantages, and applications of each method. WPT is a game-changing technology, not only for IoT networks and sensors, but also for mobile chargers, long-flying drones, solar-powered satellites, and more, and the list of potential applications will continue to grow. Each author's chapter is based on a minimum of 13 years and a maximum of over 30 years of research experience on selected WPT technologies to explain the theory and advantages and disadvantages of this to various applications. The book provides an insight into WPT theories and technologies, including inductive coupling for short-distance WPT, radio waves for long-distance WPT, optical WPT using lasers, supersonic WPT in water, and more. The characteristics of each WPT method are compared theoretically and technically. The differences of each WPT method are explained with reference to the different theories, techniques, and suitable applications. The reader will gain an understanding of the recent and future commercial market and regulations regarding WPT. They will be able to apply this knowledge to select the appropriate WPT method for their desired application. This book is appropriate for students, WPT researchers, and engineers in industry who are developing WPT applications.

Elements of Radio Frequency Energy Harvesting and Wireless Power Transfer Systems Taimoor Khan,Nasimuddin,Yahia M.M. Antar,2020-11-13 This book focuses on elementary concepts of both radio frequency energy harvesting (RFEH) and wireless power transfer (WPT), and highlights their fundamental requirements followed by recent advancements. It provides a systematic overview of the key components required for RFEH and WPT applications and also comprehensively introduces the pioneering research advancements achieved to date. The state-of-the-art circuit design topologies for the two different applications are presented mainly in terms of antenna operating frequencies, polarization characteristics, efficient matching network circuits, rectifier topologies, and overall rectenna systems. The book serves as a single point of reference for practicing engineers and researchers searching for potential sources and elements involved in the RFEH system as well as in the WPT system, and need rapid training and design guidelines in the following areas: • Different sensing elements used in RFEH and WPT • Inclusions of mathematical expressions and design problems • Illustration of some design examples and performance enhancement techniques

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.

Theory and Technology of Wireless Power Transfer Naoki Shinohara, Nuno Borges Carvalho, Takehiro Imura, Tomoyuki Miyamoto, Kazuhiro Fujimori, Alessandra Costanzo, 2024-03-29 Shinohara and co-authors present a comprehensive and in-depth discussion of all current wireless power transfer (WPT) methods and meet the growing need for a detailed understanding of the advantages and disadvantages and applications of each method. WPT is a game-changing technology, not only for IoT networks and sensors, but also for mobile chargers, long-flying drones, solar-powered satellites, and more, and the list of potential applications will continue to grow. Each author's chapter is based on a minimum of 13 years' research experience on their chosen WPT technology to explain the theory and advantages and disadvantages of this to various applications. The book includes insight into WPT theories and technologies, including inductive coupling for short-distance WPT, radio waves for long-distance WPT, optical WPT using lasers, supersonic WPT in water, and more. The characteristics of each WPT method are compared theoretically and technically. The differences of each WPT method are explained with reference to the different theories, techniques, and suitable applications. The reader will gain an understanding of the recent and future commercial market and regulations regarding WPT. They will be able to apply this knowledge to select the appropriate WPT method for their desired application. This book is appropriate for students, WPT researchers, and any engineer in industry who is developing WPT applications.

Wireless Power Transfer Fouad Sabry, 2022-10-15 What Is Wireless Power Transfer The transmission of electrical energy in the absence of cables as a physical connection is referred to variously as wireless power transfer (WPT), wireless power transmission (WPT), wireless energy transmission (WET), or electromagnetic power transfer (EPT). In a system for wirelessly transmitting power, a transmitter device is propelled by electric power derived from a power source. This drives the device to generate a time-varying electromagnetic field, which in turn transmits power across space to a receiver device. The receiver device then extracts power from the field and supplies it to an electrical load. By removing the need for cables and batteries, the technology of wireless power transfer may increase the portability, convenience, and safety of an electronic gadget for all of its users. It is helpful to employ wireless power transmission in order to power electrical equipment in situations where physically connecting cables would be difficult, harmful, or otherwise impossible. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Wireless power transfer Chapter 2: Microwave Chapter 3: Electromagnetic compatibility Chapter 4: Antenna (radio) Chapter 5: Klystron Chapter 6: Near and far field Chapter 7: Index of electronics articles Chapter 8: Resonator Chapter 9: Spark-gap transmitter Chapter 10: Loop antenna Chapter 11: Index of electrical engineering articles Chapter 12: Grid dip oscillator Chapter 13: Coupling (electronics) Chapter 14: Inductive charging Chapter 15: Dielectric resonator antenna Chapter 16: WREL (technology) Chapter 17: Resonant inductive coupling Chapter 18: Qi (standard) Chapter 19: Magnetoquasistatic field Chapter 20: Glossary of electrical and electronics engineering Chapter 21: History of the Tesla coil (II) Answering the public top questions about wireless power transfer. (III) Real world examples for the usage of wireless power transfer in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of wireless power transfer' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of wireless power transfer.

Wireless Power Transfer Dr. Johnson I Agbinya, 2012-07-17 Nikola Tesla dream in the early 20th century of a “World Wireless System” led him to build the Wardencllyffe Tower, a prototype base station serving as an emitter for his “World Wireless System”. The base station was to supply wireless supply of electrical energy to a distant receiver. This book builds upon that dream and is a result of intensive research interest in powerline, machine to machine communications and wireless power transfer globally. Wireless energy transfer or Witricity (WIREless electRICITY) transfers electricity instead of data. The technology is useful in cases where instantaneous or continuous energy is needed but interconnecting wires are inconvenient, hazardous, or impossible. The transfer is made through inductive coupling and electromagnetic radiation. Inductive coupling provides optimum power delivery to a receiver load if both the emitter and the receiver achieve magnetic resonance concurrently. Energy transfer systems mostly use antennas operating in their near field regions. As fossil energy sources are being depleted rapidly worldwide and oil prices soar, solar energy enhanced with wireless power transfer (WPT)

have become reasonable alternatives for renewable energy and power harvesting. They are finding use in transportation, electric and hybrid vehicles, very fast trains and the emerging field of Internet of Things. This book is written by the leading experts on wireless energy transfer technology and its applications. It introduces and explains the technology in great details and provides the theory and practice of WPT through the two approaches of coupled mode theory and circuit theory. Both approaches are dependent on resonance techniques. The level of presentation is suitable for design and training. In depth coverage is provided on near field concepts; coupled-mode theory and models; circuit models of inductive antennas; radiative and inductive wireless power transfer, wireless power relay concepts, optimization techniques for wireless power transfer systems, control of wireless power transfer systems, wireless charging concepts; wireless energy transfer applications in electric vehicles, embedded medical systems and propagation in human tissues. Each chapter is written by experts on a selected aspect of wireless energy transfer. The authors have gone to great lengths to provide worked examples to assist the reader in working through some of the difficult concepts and to allow more understanding. The book is an excellent foundation for applying wireless energy transfer technologies in most fields including transportation, communication, home automation, biomedical systems and home appliances. The book is recommended to practitioners and engineers in the power industry, students in universities and research institutes. Honours and post graduate students in Physics, electrical/electronic engineering and computer science will find the book easy to read and apply because of the mode of presentation.

Far Field Wireless Power Transfer and Energy Harvesting Naoki Shinohara, Jiafeng Zhou, This book covers the next generation of power transfer in which power is transmitted via energy harvesting applications. It describes far-field Wireless Power Transfers (WPT) and why it is considered a special type of power transfer where power is transmitted through wireless power sources like radio waves, Wi-Fi, and TV broadcasting signals rather than utilizing near field wireless power sources. The book is the first of its kind to explain far-field WPT and energy harvesting technology from the same viewpoint. It provides you with an application-oriented review of how the latest WPT and energy harvesting tech can solve practical real-world problems. You will also get insight to R & D activities and regulations for commercial products in the future market. The book helps you understand the theory of far field WPT, and you will learn about the rising market for power transfer, factory automation (FA) and Internet-of-Things (IoT) sensors. With its comprehensive and unique coverage combining WPT and energy harvesting technology, this is an excellent resource for researchers, graduate students and engineers looking to further their knowledge on the theory of far field wireless power transfer.

Far-Field Wireless Power Transfer and Energy Harvesting Naoki Shinohara, Jiafeng Zhou, 2022-10-31 This book covers the next generation of power transfer in which power is transmitted via energy harvesting applications. It describes far-field Wireless Power Transfers (WPT) and why it is considered a special type of power transfer where power is transmitted through wireless power sources like radio waves, Wi-Fi, and TV broadcasting signals rather than utilizing near field wireless

power sources. The book is the first of its kind to explain far-field WPT and energy harvesting technology from the same viewpoint. It provides you with an application-oriented review of how the latest WPT and energy harvesting tech can solve practical real-world problems. You will also get insight to R & D activities and regulations for commercial products in the future market. The book helps you understand the theory of far field WPT, and you will learn about the rising market for power transfer, factory automation (FA) and Internet-of-Things (IoT) sensors. With its comprehensive and unique coverage combining WPT and energy harvesting technology, this is an excellent resource for researchers, graduate students and engineers looking to further their knowledge on the theory of far field wireless power transfer.

Wireless Power Transfer Mohamed Zellagui,2021-08-18 Wireless power transfer (WPT) is a promising technology used to transfer electric energy from a transmitter to a receiver wirelessly without wires through various methods and technologies using time-varying electric, magnetic, or electromagnetic fields. It is an attractive solution for many industrial applications due to its many benefits over wired connections. This book discusses the theory and practical aspects of WPT technology.

Advances in Energy Systems Peter D. Lund,John Byrne,Reinhard Haas,Damian Flynn,2019-04-29 A guide to a multi-disciplinary approach that includes perspectives from noted experts in the energy and utilities fields Advances in Energy Systems offers a stellar collection of articles selected from the acclaimed journal Wiley Interdisciplinary Review: Energy and Environment. The journal covers all aspects of energy policy, science and technology, environmental and climate change. The book covers a wide range of relevant issues related to the systemic changes for large-scale integration of renewable energy as part of the on-going energy transition. The book addresses smart energy systems technologies, flexibility measures, recent changes in the marketplace and current policies. With contributions from a list of internationally renowned experts, the book deals with the hot topic of systems integration for future energy systems and energy transition. This important resource: Contains contributions from noted experts in the field Covers a broad range of topics on the topic of renewable energy Explores the technical impacts of high shares of wind and solar power Offers a review of international smart-grid policies Includes information on wireless power transmission Presents an authoritative view of micro-grids Contains a wealth of other relevant topics Written forenergy planners, energy market professionals and technology developers, Advances in Energy Systems is an essential guide with contributions from an international panel of experts that addresses the most recent smart energy technologies.

Wireless Power Transmission by Tesla Coil Ashish Thakur,Himanshu Kaushal,Gagandeep Singh,2018-10-07 The technology for wireless power transfer (WPT) is in the forefront of electronic development. Applications involving microwaves, solar cells, lasers, and resonance of electromagnetic waves have had the most recent success with WPT. The main function of wireless power transfer is to allow electrical devices to be continuously charged and lose the constraint of a

power cord. Although the idea is only a theory and not widely implemented yet, extensive research dating back to the 1850

Recent Wireless Power Transfer Technologies Pedro Pinho,2020-03-04 The Wireless Power Transfer concept is continuously and rapidly evolving and new challenges arise every day. As a result of these rapid changes, the need for up-to-date texts that address this growing field from an interdisciplinary perspective persists. This book, organized into ten chapters, presents interesting novel solutions in the exploitation of the near- and far-field techniques of wireless power transfer that will be used in the near future, as well as a bird's eye view of some aspects related to an emerging technological area that will change our lives and will change the paradigm of how we use electrical equipment. The book covers the theory and also the practical aspects of technology implementation in a way that is suitable for undergraduate and graduate-level students, as well as researchers and professional engineers.

Wireless Information and Power Transfer Derrick Wing Kwan Ng,Trung Q. Duong,Caijun Zhong,Robert Schober,2019-01-29 em style=mso-bidi-font-style: normal;Wireless Information and Power Transfer offers an authoritative and comprehensive guide to the theory, models, techniques, implementation and application of wireless information and power transfer (WIPT) in energy-constrained wireless communication networks. With contributions from an international panel of experts, this important resource covers the various aspects of WIPT systems such as, system modeling, physical layer techniques, resource allocation and performance analysis. The contributors also explore targeted research problems typically encountered when designing WIPT systems.

Modelling of Wireless Power Transfer Ben Minnaert,Mauro Mongiardo,2021-03-05 Wireless power transfer allows the transfer of energy from a transmitter to a receiver across an air gap, without any electrical connections. Technically, any device that needs power can become an application for wireless power transmission. The current list of applications is therefore very diverse, from low-power portable electronics and household devices to high-power industrial automation and electric vehicles. With the rise of IoT sensor networks and Industry 4.0, the presence of wireless energy transfer will only increase. In order to improve the current state of the art, models are being developed and tested experimentally. Such models allow simulating, quantifying, predicting, or visualizing certain aspects of the power transfer from transmitter(s) to receiver(s). Moreover, they often result in a better understanding of the fundamentals of the wireless link. This book presents a wonderful collection of peer-reviewed papers that focus on the modelling of wireless power transmission. It covers both inductive and capacitive wireless coupling and includes work on multiple transmitters and/or receivers.

Wireless Power Transmission for Sustainable Electronics Nuno Borges Carvalho,Apostolos Georgiadis,2020-02-19 Provides a collection of works produced by COST Action IC1301 with the goal of achieving significant advances in the field of wireless power transmission This book constitutes together information from COST Action IC1301, a group of academic and industry experts seeking to align research efforts in the field of wireless power transmission (WPT). It begins with a

discussion of backscatter as a solution for Internet of Things (IoT) devices and goes on to describe ambient backscattering sensors that use FM broadcasting for low cost and low power wireless applications. The book also explores localization of passive RFID tags and augmented tags using nonlinearities of RFID chips. It concludes with a review of methods of electromagnetic characterization of textile materials for the development of wearable antennas. *Wireless Power Transmission for Sustainable Electronics: COST WiPE - IC1301* covers textile-supported wireless energy transfer, and reviews methods for the electromagnetic characterization of textile materials for the development of wearable antennas. It also looks at: backscatter RFID sensor systems for remote health monitoring; simultaneous localization (of robots and objects) and mapping (SLAM); autonomous system of wireless power distribution for static and moving nodes of wireless sensor networks; and more. Presents techniques for smart beam-forming for on demand wireless power transmission (WPT) Discusses RF and microwave energy harvesting for space applications Describes miniaturized RFID transponders for object identification and sensing *Wireless Power Transmission for Sustainable Electronics: COST WiPE - IC1301* is an excellent book for both graduate students and industry engineers involved in wireless communications and power transfer, and sustainable materials for those fields.

Wireless Information and Power Transfer: A New Paradigm for Green Communications Dushantha Nalin K. Jayakody, John Thompson, Symeon Chatzinotas, Salman Durrani, 2017-07-20 This book presents breakthroughs in the design of Wireless Energy Harvesting (WEH) networks. It bridges the gap between WEH through radio waves communications and power transfer, which have largely been designed separately. The authors present an overview of the RF-EHNs including system architecture and RF energy harvesting techniques and existing applications. They also cover the idea of WEH in novel discoveries of information, the theoretical bounds in WEH, wireless sensor networks, usage of modern channel coding together with WEH, energy efficient resource allocation mechanisms, distributed self-organized energy efficient designs, delay-energy trade-off, specific protocols for energy efficient communication designs, D2D communication and energy efficiency, cooperative wireless networks, and cognitive networks.

Wireless Power Transfer Technologies Naoki Shinohara, 2024-05 Wireless Power Transfer (WPT) serves to transfer power from a grid or storage unit to a device without the need for cable connections. This can be performed by induction, as well as by using radio or microwaves. The technology is already seeing widespread use; for example, for charging of cell phones and toothbrushes. R&D of WPT, especially inductive and resonance coupling WPT, has been active over recent years. The increased need to decarbonize the transport sector in particular is resulting in growing interest in electric vehicles and their comfortable charging. This second edition of *Wireless Power Transfer Technologies: Theory and technologies* covers the very latest in theory and technology for WPT, for inductive and resonance coupling as well as radiative WPT with radio waves. It describes the theory as well as the technology and applications. Updates to the new edition include output characteristics of

multi-hop systems, technologies, new experimental data, developments on regulation and standardization, WPT for dynamic EV charging, and far-field WPT. After revising inductive and resonance coupling theory, chapters cover multi-hop wireless power transmission, circuit theory, power transfer via radio waves, antennas and phased arrays, transmitter, inverter and rectifier technology, WPT for electric vehicles, long-distance WPT, as well as biological and medical aspects. This revised, expanded and updated new edition is a valuable resource for researchers in industry and academia involved with power systems and vehicles.

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