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Wireless Power Transfer via Radiowaves

Naoki Shinohara

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Wireless Power Transfer Via Radiowaves

Fei Hu

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Wireless Power Transfer Via Radiowaves:

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, 2018-06-11 Wireless Power Transfer WPT enables power to be transferred from a grid or storage unit to a device without the need for cable connections This can be performed by inductive coupling of magnetic fields as well as by direct radiative transfer via beams of electromagnetic waves commonly radiowaves microwaves or lasers Inductive coupling is the most widely used wireless technology with applications including charging handheld devices RFID tags chargers for implantable medical devices and proposed systems for charging electric vehicles Applications of radiative power transfer include solar power satellites and wireless powered drone aircraft

Recent Wireless Power Transfer Technologies via Radio Waves

Naoki Shinohara,2022-09-01 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 WPTWPT 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

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

Wireless Power Transfer Algorithms, Technologies and Applications in Ad Hoc Communication Networks Sotiris Nikolettseas,Yuanyuan Yang,Apostolos Georgiadis,2016-11-18 This book is the first systematic exposition on the

emerging domain of wireless power transfer in ad hoc communication networks It selectively spans a coherent large spectrum of fundamental aspects of wireless power transfer such as mobility management in the network combined wireless power and information transfer energy flow among network devices joint activities with wireless power transfer routing data gathering and solar energy harvesting and safety provisioning through electromagnetic radiation control as well as fundamental and novel circuits and technologies enabling the wide application of wireless powering Comprising a total of 27 chapters contributed by leading experts the content is organized into six thematic sections technologies communication mobility energy flow joint operations and electromagnetic radiation awareness It will be valuable for researchers engineers educators and students and it may also be used as a supplement to academic courses on algorithmic applications wireless protocols distributed computing and networking

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 for E-Mobility Mauro Feliziani, Tommaso Campi, Silvano Cruciani, Francesca Maradei, 2023-11-29 Wireless Power Transfer for e Mobility Fundamentals and Design Guidelines for Wireless Charging of Electric Vehicles provides a comprehensive resource for researchers and engineers engaged in the development of automotive WPT systems The book opens with an overview of wireless technologies for power transfer and their evolution over time then focusing on the application of this technology to electric mobility highlighting its importance in terms of impact and perspectives on the development of sustainable transport and autonomous driving Chapters discuss the fundamentals of electromagnetic field in WPT systems and the circuit modelling In addition they examine core current electric vehicle systems and present day automotive WPT standards Design techniques of magnetic couplers including compensation networks are explored in depth alongside power electronics techniques for automotive WPT systems Both stationary and dynamic automotive WPT systems are rigorously assessed Finally the problems of electromagnetic compatibility and electromagnetic field safety are described with particular attention to shielding techniques for the

mitigation of magnetic field emissions Addressing essential knowledge from foundational to advanced levels Wireless Power Transfer for e Mobility provides practical guidance to engineers and researchers developing the future of electric mobility Provides an advanced foundation for research and current industrial applications in automotive WPT systems Develops proven methodologies linked to some case studies using examples drawn from global practice Explores the role of WPT in near future mobility scenarios with featured coverage of electrified transportation Includes an extensive usage of equations from MATLAB Spice and COMSOL

Parity-Time Symmetric Wireless Power Transfer Bo Zhang,Xujian Shu,Lihao Wu,2025-03-10 This book belongs to the subject of Electric Engineering and involves the concept of PT symmetry in quantum mechanics It presents a concise and insightful view of the knowledge on PT symmetric circuits This book first offers an overview of the development and challenges of wireless power transfer technology as well as the introduction of PT symmetry in wireless power transfer and then briefly introduces PT symmetry and its representation in circuits so as to present the realization methods of negative resistor as the key component of PT symmetric circuits On this basis PT symmetric wireless power transfer systems are constructed and their characteristics including constant power constant efficiency constant voltage and constant current are analyzed Therein the system designs and implementations are also mentioned Next the various techniques for improving performances of PT symmetric wireless power transfer such as improvement of transfer distance reduction of switching frequency and losses etc Moreover the basic structures transfer characteristics system designs and implementations of different types of PT symmetric wireless power transfer systems are proposed including multi load system multi relay coil system capacitive coupled system inductive and capacitive dual coupled system Therefore this book provides readers with enough background and understanding to go deeper in the topic of PT symmetric wireless power transfer so that this book can be used as a textbook for courses related to PT symmetric circuits PT symmetric wireless power transfer etc This book is intended for students without an extensive mathematical background and is suitable for advanced undergraduate and graduate students engineers and researchers who focus on the PT symmetric circuits PT symmetric wireless power transfer systems

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

Wireless Charging Technology and the Future of Electric Transportation In-Soo Suh,2015-06-08 Around the

world the major automakers are developing their strategies for conductive and wireless charging technologies with concerted efforts to establish technical standards on wireless electric vehicle charging mainly focused on the safety considerations and inter operability Wireless Charging Technology and the Future of Electric Transportation covers the current status of wireless power transfer WPT technology and its potential applications to the future road and rail transportation systems Focusing on the applications of WPT technology to electric vehicle charging and the future green transportation field Wireless Charging Technology and the Future of Electric Transportation was written collaboratively by nine experts in the field led by Dr In Soo Suh a professor and researcher from the Korean Advanced Institute of Technology KAIST This book brings an in depth analysis of the most important areas of interest in this new area such as Working principles of wireless power transfer technology Current technology and its projected future impact on electric vehicles Comparison between conductive and wireless charging of electric vehicles Introduction to dynamic wireless charging systems Technological challenges and international technical standards activities Applications in consumer electronics rail aviation marine and off road transportation Long distance electrical energy transfer

Surface Waves Farzad Ebrahimi, 2018-05-02 Surface waves have drawn a significant attention and interest in the recent years in a broad range of commercial applications while their commercial developments have been supported by fundamental and applied research studies This book is a result of contributions of experts from international scientific community working in different aspects of surface waves and reports on the state of the art research and development findings on this topic through original and innovative research studies It contains up to date publications of leading experts and the edition is intended to furnish valuable recent information to the professionals involved in surface wave analysis and applications The text is addressed not only to researchers but also to professional engineers students and other experts in various disciplines both academic and industrial seeking to gain a better understanding of what has been done in the field recently and what kind of open problems are in this area

Magnetic Communications: From Theory to Practice Fei Hu, 2018-07-24 This book covers comprehensively the theories and practical design of magnetic communications It emphasizes the differences between it and RF communications It first provides the models and signal propagation principles of magnetic communication systems Then it describes the hardware architecture of the system including transmitter MODEM inductors coils etc Then it discusses the corresponding communication software design principles and cases Finally it presents several types of practical implementations and applications

Advances in Energy Systems Peter D. Lund, John Byrne, Reinhard Haas, Damian Flynn, 2019-02-06 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

Full-Duplex Communications for Future Wireless Networks Hirley Alves,Taneli Riihonen,Himal A. Suraweera,2020-04-21 This book focuses on the multidisciplinary state of the art of full duplex wireless communications and applications Moreover this book contributes with an overview of the fundamentals of full duplex communications and introduces the most recent advances in self interference cancellation from antenna design to digital domain Moreover the reader will discover analytical and empirical models to deal with residual self interference and to assess its effects in various scenarios and applications Therefore this is a highly informative and carefully presented book by the leading scientists in the area providing a comprehensive overview of full duplex technology from the perspective of various researchers and research groups worldwide This book is designed for researchers and professionals working in wireless communications and engineers willing to understand the challenges and solutions full duplex communication so to implement a full duplex system

RF Power Semiconductor Generator Application in Heating and Energy Utilization Satoshi Horikoshi,Nick Serpone,2020-03-26 This is a specialized book for researchers and technicians of universities and companies who are interested in the fundamentals of RF power semiconductors their applications and market penetration Looking around we see that products using vacuum tube technology are disappearing For example branch tube TVs have changed to liquid crystal TVs and fluorescent light have turned into LED The switch from vacuum tube technology to semiconductor technology has progressed remarkably At the same time high precision functionalization miniaturization and energy saving have advanced On the other hand there is a magnetron which is a vacuum tube device for generating microwaves However even this vacuum tube technology has come to be replaced by RF power semiconductor technology In the last few years the price of semiconductors has dropped sharply and its application to microwave heating and energy fields will proceed In some fields the transition from magnetron microwave oscillator to semiconductor microwave oscillator has already begun From now on this development will progress remarkably Although there are several technical books on electrical systems that explain RF power semiconductors there are no books yet based on users viewpoints on actual microwave heating and energy fields In particular none have been written about exact usage

and practical cases to answer questions such as What are the advantages and disadvantages of RF power semiconductor oscillator What kind of field can be used and the difficulty of the market and application Based on these issues this book explains the RF power semiconductors from the user s point of view by covering a very wide range of fields Proceedings of the Third International Conference on Information Management and Machine Intelligence Dinesh Goyal,Anil Kumar,Vincenzo Piuri,Marcin Paprzycki,2022-08-03 This book features selected papers presented at Third International Conference on International Conference on Information Management and Machine Intelligence ICIMMI 2021 held at Poornima Institute of Engineering AI machine and deep learning information management security processing techniques and interpretation applications of artificial intelligence in soft computing and pattern recognition cloud based applications for machine learning application of IoT in power distribution systems as well as wireless sensor networks and adaptive wireless communication **Infrared Spectroscopy of Symmetric and Spherical Spindles for Space Observation 1**

Pierre-Richard Dahoo,Azzedine Lakhli,2021-03-31 This book is dedicated to the description and application of various different theoretical models to identify the near and mid infrared spectra of symmetric and spherical top molecules in their gaseous form Theoretical models based on the use of group theory are applied to rigid and non rigid molecules characterized by the phenomenon of tunneling and large amplitude motions The calculation of vibration rotation energy levels and the analysis of infrared transitions are applied to molecules of ammonia NH₃ and methane CH₄ The applications show how interactions at the molecular scale modify the near and mid infrared spectra of isolated molecules under the influence of the pressure of a nano cage the substitution site of a rare gas matrix clathrate fullerene or zeolite or a surface and allow us to identify the characteristics of the perturbing environment This book provides valuable support for teachers and researchers but is also intended for engineering students working research engineers and Masters and doctorate students Acoustics, Aeroacoustics and Vibrations Fabien Anselmet,Pierre-Olivier Mattei,2016-01-07 This didactic book presents the main elements of acoustics aeroacoustics and vibrations Illustrated with numerous concrete examples linked to solid and fluid continua Acoustics Aeroacoustics and Vibrations proposes a selection of applications encountered in the three fields whether in room acoustics transport energy production systems or environmental problems Theoretical approaches enable us to analyze the different processes in play Typical results mostly from numerical simulations are used to illustrate the main phenomena fluid acoustics radiation diffraction vibroacoustics etc *Design Constraints for NFC Devices* Dominique Paret,2016-03-31 Near field communication NFC can appear to be a simple intuitive technology for exchanging data between close devices In reality these contactless structures that combine components and antennas must respect important and specific working constraints Illustrated by a number of detailed technological examples this book discusses the multiple normative ISO CEN NFC Forum EMVCo etc and regulatory ERC FCC ETSI radiofrequency private and ecological pollution etc constraints as well as the applied typological functional structural environmental or interoperability constraints that a

NFC device might face Design Constraints for NFC Devices also presents techniques that enable us to free ourselves from the technological constraints of current NFC operations encountered in banking public transport administration automotive industrial communicating object and Internet of Things applications

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