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Wireless Power Transfer via Radiowaves

Naoki Shinohara

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Wireless Power Transfer Via Radiowaves

John A. Rogers, Roozbeh Ghaffari, Dae-Hyeong Kim



Wireless Power Transfer Via Radiowaves:

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

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

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 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

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

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

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

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

Vibrator and Slot Antenna Arrays for Modern Applications Mikhail V. Nesterenko,Victor A. Katrich,Sergey L. Berdnik,Oleksandr M. Dumin,Anatoliy I. Luchaninov,Dmitriy V. Gretskih,2024-11-22 This book provides solutions to a complex of internal and external problems of electromagnetics associated with the development of theory construction of mathematical models and the development of rigorous methods for calculating the electrodynamic characteristics of radiating structures and antenna arrays with impedance vibrator and slot elements The issues related to the impedance synthesis of antenna arrays and analysis of large aperture rectenna arrays are considered Solutions to the problems of determining the electrodynamic characteristics of impedance vibrators slot and multi element radiators with arbitrary geometric and electrophysical parameters are obtained within the framework of a unified methodological approach to constructing asymptotic solutions of integral equations for currents This approach made it possible to study a number of new vibrator slotted and combined vibrator slotted structures and their multi element systems The original research results reveal the possibilities of using such structures as basic elements for creating modern antenna waveguide devices operating in the range from meter to millimeter wavelengths which have new technical characteristics and functionalities This book is intended for senior and postgraduate students and researchers working in the fields of radiophysics radio engineering and antenna feeder design The book covers the following topics Excitation of Electromagnetic Fields in Electrodynamic Volumes with Coordinate Boundaries General Aspects of the Theory of Thin Impedance Vibrators and Narrow Slots in a Quasi One Dimensional Approximation Impedance Vibrators Antenna Arrays Slotted Waveguide Antenna Arrays Combined Vibrator Slot Antenna Arrays Impedance Synthesis for Vibrator Antenna Arrays Impedance Synthesis for Slot Antenna Arrays Large Aperture Rectenna Arrays of Wireless Power Transmission Systems Ultrawideband Combined Vibrator Slot Antenna Arrays

Towards Autonomous Robotic Systems M. Nazmul Huda,Mingfeng Wang,Tatiana Kalganova,2024-12-29 This two volume set LNAI 15051 15052 constitutes the refereed proceedings from the 25th Annual Conference Towards Autonomous Robotic Systems TAROS 2024 held in London UK during August 21 23 2024 The 54 full papers and 11 short papers presented in these volumes were carefully reviewed and selected from 69 submissions The papers presented in these two volumes are organized in the following topical sections Part I Robotic Learning Mapping and Planning Robotic Modeling Sensing and Control Machine Vision Part II Human Robot Interaction Collaboration Locomotion and Manipulation Mechanism Design Soft Robotics Swarms and Multi Agent Systems

Stretchable Bioelectronics for Medical Devices and Systems John A. Rogers,Roozbeh Ghaffari,Dae-Hyeong Kim,2016-03-31 This book highlights recent advances in soft and stretchable biointegrated electronics A renowned group of authors address key ideas in the materials processes mechanics and devices of soft and stretchable electronics the wearable electronics systems and bioinspired and implantable biomedical electronics Among the topics discussed are liquid metals stretchable and flexible energy sources skin like devices in vitro neural

recording and more Special focus is given to recent advances in extremely soft and stretchable bio inspired electronics with real world clinical studies that validate the technology Foundational theoretical and experimental aspects are also covered in relation to the design and application of these biointegrated electronics systems This is an ideal book for researchers engineers and industry professionals involved in developing healthcare devices medical tools and related instruments relevant to various clinical practices

Antennas for Small Mobile Terminals Kyohei Fujimoto,Koichi Itoh,2018-09-30

With the progress and rapid increase in mobile terminals the design of antennas for these small systems is becoming more and more important This forward looking volume offers professionals current and comprehensive coverage of the design development and implementation of small compact and lightweight antennas in mobile communication terminals The book discusses a wide range of communication systems from Radio frequency identification RFID and near field communications NFC to wireless power transmission WPT and broadband wireless networks Engineers learn how to use small antennas in mobile phones wearable systems laptop computers radio watches and broadband wireless networks such as WLAN and WiMAX This definite reference covers the critical applications today s professionals need to understand from antennas for IoT and antenna design for 5G mm wave devices to body centric communication systems and antennas for unmanned aerial vehicles

Wireless Power Transfer Technologies Naoki Shinohara,2024-04-22 The new edition of this established work on wireless power transfer Updates 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

Microwave Power Transmission as a Future Feasibility of Solar Power Satellite Amit Sachan,Preeti Sachan,2013-04-18 Research Paper postgraduate from the year 2013 in the subject Energy Sciences language English abstract The search for a new safe and stable renewable energy source led to the idea of building a power station in space which transmits electricity to Earth The concept of Solar Power Satellites SPS was invented by Glaser in 1968 SPS converts solar energy into microwaves and transmit it to a receiving antenna on Earth for conversion to electric power The key technology needed to enable the future feasibility of SPS is Microwave Power Transmission SPS would be a massive structure with an area of about 56 sq and would weigh about 30 000 to 50 000 metric ton Estimated cost is about 74 billion and would take about 30 years for its construction In order to reduce the projected cost of a SPS suggestions are made to employ extra terrestrialresources for its construction This reduces the transportation requirements of such a massive structure However the realization of SPS concept holds great promises for solving energy crisis

Materials, Mechatronics and Automation II De Huai Zeng,2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Materials Mechatronics and Automation ICMMA 2013 April 21 22 2013 Singapore

Wireless Power Transfer Johnson I. Agbinya,2015-12-01 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

Magill's Medical Guide Anne Chang,2005
 Thrombolytic therapy TPA Thrombosis thrombus Thumb sucking Thyroid disorders Thyroid gland Thyroidectomy Tics Toilet training Tonsillectomy adenoid removal Tonsillitis Tooth extraction Toothache Torticollis Touch Tourette s syndrome Toxemia Toxic shock syndrome Toxicology Toxoplasmosis Tracheostomy Trachoma Transfusion Transient ischemic attacks TIAs Transplantation Tremors Trichinosis Trichomoniasis Tropical medicine Tubal ligation Tuberculosis Tumor removal Tumors Turner syndrome Typhoid fever typhus Ulcer surgery Ulcers Ultrasonography Umbilical cord Unconsciousness Upper extremities Urethritis Urinalysis Urinary disorders Urinary system Urology Urology pediatric Vagotomy Varicose vein removal Varicose veins Vascular medicine Vascular system Vasectomy Venous insufficiency Veterinary medicine Viral infections Visual disorders Vitamins minerals Voice vocal cord disorders Von Willebrand s disease Warts Weaning Weight loss gain Weight loss medications Well baby examinations West Nile virus Whiplash Whooping cough Wilson s disease Wisdom teeth Wiskott Aldrich syndrome World Health Organization Worms Wounds Wrinkles Xenotransplantation Yellow fever Yoga Zoonoses Glossary Diseases Other Medical Conditions Types of Health Care Providers Medical Journals Web Site Directory Entries by Anatomy or System Affected Entries by Specialties Related Fields

Proceedings of the 26th Intersociety Energy Conversion Engineering Conference ,1991 **Wireless Power Transfer** Takehiro Imura,2020-06-16 This book describes systematically wireless power transfer technology using magnetic resonant coupling and electric resonant coupling and presents the latest theoretical and phenomenological approaches to its practical

implementation operation and its applications It also discusses the difference between electromagnetic induction and magnetic resonant coupling the characteristics of various types of resonant circuit topologies and the unique features of magnetic resonant coupling methods Designed to be self contained this richly illustrated book is a valuable resource for a broad readership from researchers to engineers and anyone interested in cutting edge technologies in wireless power transfer

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