

Wireless Charging Of Mobile Phones Using Microwaves

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Abstract-In modern era mobile phones are basic need of every person .In this paper a new proposal has been made so as to make the recharging of the mobile phones is done automatically as you talk in your mobile phone! This is done by use of microwaves. The microwave signal is transmitted from the transmitter along with the message signal using special kind of antennas called slotted wave guide antenna at a frequency is 2.45 GHz. There are minimal additions, which have to be made in the mobile handsets, which are the addition of a sensor, a Rectenna, and a filter.

Index Terms- Rectenna, sensor, transmitter, and magnetron

1. INTRODUCTION

There are two main concepts which of this technique, first one is electromagnetic spectrum and second is microwave region.

The light contains all the regions of visible spectrum which has electromagnetic waves in it. Microwaves are radio waves which has wavelength of 1mm to 1m. The term microwaves refers to alternating current signal with frequencies between 300MHz and 300GHz. Microwave components are often distributed elements, where the phase of a voltage or current are changes significantly over the physical extent of the device because the device dimensions are on the order of the microwave

Designation	Frequency range
L Band	1 to 2 GHz
S Band	2 to 4 GHz
C Band	4 to 8 GHz
X Band	8 to 12 GHz
Ku Band	12 to 18 GHz
K Band	18 to 26 GHz
Ka Band	26 to 40 GHz
Q Band	30 to 50 GHz
U Band	40 to 60 GHz

wavelength. At much lower frequency, the wavelength is

large enough that there is insignificant phase variation across the dimensions of the component.

Microwave wavelengths range from approximately one millimeter (the thickness of a pencil lead) thirty centimeters (about twelve inches). In a microwave oven, the radio waves generated are tuned to frequencies that can be absorbed by the food. The food absorbs the energy and gets warmer. The dish holding the food doesn't absorb a significant amount of energy and stays much cooler. Microwaves are emitted from the Earth, from objects such as cars and planes, and from the atmosphere. These microwaves can be detected to give information, such as the temperature of the object that emitted the microwaves.

Microwaves have wavelengths that can be measured in centimeters! The longer microwaves, those closer to a foot in length, are the waves which heat our food in a microwave oven. Microwaves are good for transmitting information from one place to another because microwave energy can penetrate haze, light rain and snow, clouds, and smoke. Shorter microwaves are used in remote sensing. These microwaves are used for clouds and smoke, these waves are good for viewing the Earth from space. Microwave waves are used in the communication industry and in the kitchen as a way to cook foods. Microwave radiation is still associated with energy levels that are usually considered harmless except for people with pacemakers.

Microwave region of the Electromagnetic Spectrum



Here we are going to use the S band of the Microwave Spectrum.

The frequency selection is another important aspect in

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**Dong Yue,Chen Peng,Dajun Du,Tengfei
Zhang,Min Zheng,Qinglong Han**

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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

Charge-based CMOS Digital RF Transmitters Pedro Emiliano Paro Filho, Jan Craninckx, Piet Wambacq, Mark Ingels, 2016-09-27 This book introduces a completely novel architecture that can relax the trade off existing today between noise power and area consumption in a very suitable solution for advanced wireless communication systems Through the combination of charge domain operation with incremental signaling this architecture gives the best of both worlds providing the reduced area and high portability of digital intensive architectures with an improved out of band noise performance given by intrinsic noise filtering capabilities Readers will be enabled to design higher performance radio front ends that consume less power and area especially with respect to the transmitter and power amplifier designs considered by many the battery killers on most mobile devices

RF and Microwave Transmitter Design Andrei Grebennikov, 2011-09-19 RF and Microwave Transmitter Design is unique in its coverage of both historical transmitter design and cutting edge technologies This text explores the results of well known and new theoretical analyses while informing readers of modern radio transmitters practical designs and their components Jam packed with information this book broadcasts and streamlines the author s considerable experience in RF and microwave design and development

Ultra Low Power Transceiver for Wireless Body Area Networks Jens Masuch, Manuel Delgado-Restituto, 2013-03-28 Wireless Body Area Networks WBANs are expected to promote new applications for the ambulatory health monitoring of chronic patients and elderly population aiming to improve their quality of life and independence These networks are composed by wireless sensor nodes WSNs used for measuring physiological variables e g glucose level in blood or body temperature or controlling therapeutic devices e g implanted insulin pumps These nodes should exhibit a high degree of energy autonomy in order to extend their battery lifetime or even make the node supply to rely on harvesting techniques Typically the power budget of WSNs is dominated by the wireless link and hence many efforts have been directed during the last years toward the implementation of power efficient transceivers Because of the short range typically no more than a few meters and low data rate typically in between 10 kb/s and 1 Mb/s simple communication protocols can be employed One of these protocols specifically tailored for WBAN applications is the Bluetooth low energy BLE standard This book describes the

challenges and solutions for the design of ultra low power transceivers for WBANs applications and presents the implementation details of a BLE transceiver prototype Coverage includes not only the main concepts and architectures for achieving low power consumption but also the details of the circuit design and its implementation in a standard CMOS technology **Wireless-Powered Communication Networks** Dusit Niyato,Ekram Hossain,Vijay Bhargava,Lotfollah Shafai,2017 A comprehensive introduction to architecture design protocol optimization and application development

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 **Plug In Electric Vehicles in Smart Grids** Sumedha Rajakaruna,Farhad

Shahnia,Arindam Ghosh,2014-11-29 This book focuses on the state of the art in worldwide research on applying optimization approaches to intelligently control charging and discharging of batteries of Plug in Electric Vehicles PEVs in smart grids Network constraints cost considerations the number and penetration level of PEVs utilization of PEVs by their owners ancillary services load forecasting risk analysis etc are all different criteria considered by the researchers in developing mathematical based equations which represent the presence of PEVs in electric networks Different objective functions can be defined and different optimization methods can be utilized to coordinate the performance of PEVs in smart grids This book will be an excellent resource for anyone interested in grasping the current state of applying different optimization techniques and approaches that can manage the presence of PEVs in smart grids **Key Technologies of Magnetically-Coupled Resonant Wireless Power Transfer** Yiming Zhang,2017-12-21 This thesis focuses on the key technologies involved in

magnetically coupled Wireless Power Transfer WPT Starting from the basic structures and theories of WPT it addresses four fundamental aspects of these systems Firstly it analyzes the factors affecting transfer efficiency and compares various methods for reducing the working frequency Secondly it discusses frequency splitting and offers a physical explanation Thirdly it proposes and assesses three multiple load transfer structures Lastly it investigates WPT systems with active voltage source and current source load As such the thesis offers readers a deeper understanding of WPT technology while also proposing insightful new advances

The Proceedings of 2022 International Conference on Wireless Power Transfer (ICWPT2022) Chengbin Ma,Yiming Zhang,Siqi Li,Lei Zhao,Ming Liu,Pengcheng Zhang,2023-03-22 This book includes original peer reviewed research papers from the 2022 International Conference on Wireless Power Transfer ICWPT2022 held in Chongqing China The topics covered include but are not limited to wireless power transfer technology and systems coupling mechanism and electromagnetic field of wireless power transfer systems latest developments in wireless power transfer system and wide applications The papers share the latest findings in the field of wireless power transfer making the book a valuable asset for researchers engineers university students etc

Proceedings of the 2025 2nd International Conference on Mechanics, Electronics Engineering and Automation (ICMEEA 2025) Jamshed Iqbal,2025-08-31 Open access 2025 2nd International Conference on Mechanics Electronics Engineering and Automation ICMEEA 2025 will be held in Toronto Canada hybrid during May 16 18th provides a forum for researchers and experts involved in different but related domains to confront research results The scope of ICMEEA 2025 includes the research and development of collaboration technologies to mechanical engineering electronic engineering control system and automation of systems

Switchmode RF and Microwave Power Amplifiers Andrei Grebennikov,Nathan O. Sokal,Marc J. Franco,2012-06-19 Annotation Written by leading experts this is a broad and in depth reference on RF and microwave switch mode power amplifiers It combines theoretical analysis with practical implementation including the use of computer aided design examples

Emerging Capabilities and Applications of Wireless Power Transfer Triviño-Cabrera, Alicia,Aguado, José A.,2018-09-21 Technologies that enable powering a device without the need for being connected with a cable to the grid are gaining attention in recent years due to the advantages that they provide They are a commodity to users and provide additional functionalities that promote autonomy among the devices Emerging Capabilities and Applications of Wireless Power Transfer is an essential reference source that analyzes the different applications of wireless power transfer technologies and how the technologies are adapted to fulfill the electrical magnetic and design based requirements of different applications Featuring research on topics such as transfer technologies circuitual analysis and inductive power transfer this book is a vital resource for academicians electrical engineers scientists researchers and industry professionals seeking coverage on device power and creating autonomy through alternative power options for devices

Energy Harvesting with Functional Materials and Microsystems Madhu Bhaskaran,Sharath Sriram,Krzysztof Iniewski,2017-12-19 For decades people have searched for ways

to harvest energy from natural sources. Lately a desire to address the issue of global warming and climate change has popularized solar or photovoltaic technology while piezoelectric technology is being developed to power handheld devices without batteries and thermoelectric technology is being explored to convert wasted heat such as in automobile engine combustion into electricity. Featuring contributions from international researchers in both academics and industry, *Energy Harvesting with Functional Materials and Microsystems* explains the growing field of energy harvesting from a materials and device perspective with resulting technologies capable of enabling low power implantable sensors or a large scale electrical grid. In addition to the design implementation and components of energy efficient electronics, the book covers current advances in energy harvesting materials and technology including high efficiency solar technologies with lower cost than existing silicon based photovoltaics, novel piezoelectric technologies utilizing mechanical energy from vibrations and pressure, the ability to harness thermal energy and temperature profiles with thermoelectric materials. Whether you're a practicing engineer, academician, graduate student, or entrepreneur looking to invest in energy harvesting devices, this book is your complete guide to fundamental materials and applied microsystems for energy harvesting. **Electromagnetic Fields**

Jean G. Van Bladel, 2007-06-04. Professor Jean Van Bladel, an eminent researcher and educator in fundamental electromagnetic theory and its application in electrical engineering, has updated and expanded his definitive text and reference on electromagnetic fields to twice its original content. This new edition incorporates the latest methods, theory, formulations, and applications that relate to today's technologies. With an emphasis on basic principles and a focus on electromagnetic formulation and analysis, *Electromagnetic Fields*, Second Edition, includes detailed discussions of electrostatic fields, potential theory, propagation in waveguides and unbounded space, scattering by obstacles, penetration through apertures, and field behavior at high and low frequencies. **Cognitive Radio Receiver Front-Ends**

Bodhisatwa Sadhu, Ramesh Harjani, 2013-10-11. This book focuses on the architecture and circuit design for cognitive radio receiver front ends. The authors first provide a holistic explanation of RF circuits for cognitive radio systems. This is followed by an in-depth exploration of existing techniques that can be utilized by circuit designers. Coverage also includes novel circuit techniques and architectures that can be invaluable for designers for cognitive radio systems. **Intelligent Computing, Networked Control, and Their Engineering Applications**

Dong Yue, Chen Peng, Dajun Du, Tengfei Zhang, Min Zheng, Qinglong Han, 2017-09-01. The three volume set CCIS 761, CCIS 762, and CCIS 763 constitutes the thoroughly refereed proceedings of the International Conference on Life System Modeling and Simulation (LSMS 2017) and of the International Conference on Intelligent Computing for Sustainable Energy and Environment (ICSEE 2017) held in Nanjing, China, in September 2017. The 208 revised full papers presented were carefully reviewed and selected from over 625 submissions. The papers of this volume are organized in topical sections on Biomedical Signal Processing, Computational Methods in Organism Modeling, Medical Apparatus and Clinical Applications, Bionics, Control Methods, Algorithms, and Apparatus Modeling and Simulation of Life

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 Energy Saving and Pollution Reduction Intelligent Methods in Developing Electric Vehicles Engines and Equipment
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 Optimization Methods Computational Methods for Sustainable Environment **Powering Autonomous Sensors** María
 Teresa Penella-López, Manuel Gasulla-Forner, 2011-05-18 Autonomous sensors transmit data and power their electronics
 without using cables They can be found in e g wireless sensor networks WSNs or remote acquisition systems Although
 primary batteries provide a simple design for powering autonomous sensors they present several limitations such as limited
 capacity and power density and difficulty in predicting their condition and state of charge An alternative is to extract energy
 from the ambient energy harvesting However the reduced dimensions of most autonomous sensors lead to a low level of
 available power from the energy transducer Thus efficient methods and circuits to manage and gather the energy are a must
 An integral approach for powering autonomous sensors by considering both primary batteries and energy harvesters is
 presented Two rather different forms of energy harvesting are also dealt with optical or solar and radiofrequency RF Optical
 energy provides high energy density especially outdoors whereas RF remote powering is possibly the most feasible option for
 autonomous sensors embedded into the soil or within structures Throughout different chapters devices such as primary and
 secondary batteries supercapacitors and energy transducers are extensively reviewed Then circuits and methods found in the
 literature used to efficiently extract and gather the energy are presented Finally new proposals based on the authors own
 research are analyzed and tested Every chapter is written to be rather independent with each incorporating the relevant
 literature references Powering Autonomous Sensors is intended for a wide audience working on or interested in the
 powering of autonomous sensors Researchers and engineers can find a broad introduction to basic topics in this interesting
 and emerging area as well as further insights on the topics of solar and RF harvesting and of circuits and methods to
 maximize the power extracted from energy transducers *Minimizing Spurious Tones in Digital Delta-Sigma Modulators*
 Kaveh Hosseini, Michael Peter Kennedy, 2011-06-25 This book describes several Digital Delta Sigma Modulator DDSM
 architectures including multi stage noise shaping MASH error feedback modulator EFM and single quantizer SQ DDSM
 modulators with a focus on predicting and maximizing their cycle lengths The authors aim to demystify an important aspect
 of these particular DDSM structures namely the existence of spurs resulting from the inherent periodicity of DDSMs with
 constant inputs Simulink and MATLAB models and code are presented in Chapters 2 5 to enable the reader to reproduce the

results in this work and to explore further These examples will also be helpful for first time designers of DDSMs Wireless Radio-Frequency Standards and System Design: Advanced Techniques Cornetta, Gianluca, Santos, David J., Vazquez, Jose Manuel, 2012-01-31 Radio frequency RF integrated circuits in CMOS technology are gaining increasing popularity in the commercial world and CMOS technology has become the dominant technology for applications such as GPS receivers GSM cellular transceivers wireless LAN and wireless short range personal area networks based on IEEE 802 15 1 Bluetooth or IEEE 802 15 4 ZigBee standards Furthermore the increasing interest in wireless technologies and the widespread of wireless communications has prompted an ever increasing demand for radio frequency transceivers Wireless Radio Frequency Standards and System Design Advanced Techniques provides perspectives on radio frequency circuit and systems design covering recent topics and developments in the RF area Exploring topics such as LNA linearization behavioral modeling and co simulation of analog and mixed signal complex blocks for RF applications integrated passive devices for RF ICs and baseband design techniques and wireless standards this is a comprehensive reference for students as well as practicing professionals Radio Receivers for Systems of Fixed and Mobile Communications Vasiliy V. Logvinov, Sergey M. Smolskiy, 2022-05-13 The textbook acquaints the reader with the architecture of receivers of analog and digital radio systems helps to study the stages of designing a modern radio receiver and reveals the reasons and methods for its effective operation in networks for various purposes Particular attention is paid to the methods of generating and processing signals in the receivers of digital systems with multiple access which make it possible to provide data transfer rates close to the maximum possible according to Shannon As a textbook for students studying methods of optimal signal reception the book will also be useful to specialists in the field of telecommunications involved in the development of radio receivers The book shows how the development of theoretical circuitry and integrated technologies led to the active introduction of algorithmic methods for signal processing changed both the design of receivers and the methods of forming the information flow in free space MIMO beamforming The creation of a global 5G network based on heterogeneous networks puts forward new requirements for the architecture of receivers which are determined by the requirements to achieve high data rates low time delays or use in networks with coordinated multipoint transmission and reception CoMP To consolidate the knowledge gained the book includes a complete set of materials for online classes including questions and answers a guide to solving problems for each chapter and computer modeling units of receivers in the MicroCAP environment based on preliminary calculations

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wissenschaftler innen seit dem ende des 20 jahrhunds historisch abgeschlossen

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