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Recent Wireless Power Transfer Technologies
Recent Wireless Power Transfer Technologies. 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.

Recent Wireless Power Transfer Technologies | IntechOpen
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 focuses 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.

Recent Wireless Power Transfer Technologies via Radio Waves (River Publishers Series in Communications): Shinohara ...
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For example, EVs have short driving ranges and long charging times. To overcome these challenges, wireless power transfer (WPT) is emerging as a promising solution. WPT enables the efficient wireless charging of EVs to increase driving range, while simultaneously decreasing battery size and improving convenience.

A review of recent trends in wireless power transfer technology and its applications in electric vehicle wireless ...
Recent advances in wireless power transfer (WPT) provide an alternative method to power implantable electronic devices [1, 2, 3]. The WPT technology not only eliminates the needs of repeated surgical replacements of a depleted battery within the human body, but also reduces the size of the implant, simplifies the implantation procedure, and enables the device to be placed in restricted anatomic locations prohibitive to large implants.

Wireless Power Transfer for Miniature Implantable Biomedical Devices | IntechOpen
This research report provides a status review of emerging and existing Wireless Power Transfer (WPT) technologies applicable to electric bus (EB) and rail transit. The WPT technology options discussed, especially Inductive Power Transfer (IPT), enable rapid in-station or

Review and Evaluation of Wireless Power Transfer (WPT) for Electric Transit Applications, F T A Report Number 0060
"Wireless systems using Emrod technology can transmit any amount of power current wired solutions transmit." The system uses a transmitting antenna, a series of relays and a receiving rectenna (a...

NZ to trial world-first commercial long-range, wireless power transmission - New Atlas - New Technology & Science News
Wireless power transmission technology is not a new technology. In 1980, it was demonstrated by Nikola Telsa. There are three main systems used for wireless electricity transmission: solar cells, microwaves and resonance. In an electrical device, microwaves are used to transmit electromagnetic radiation from a source to a receiver.

Wireless Power Transmission Technology Working with Applications - WatElectrical.com
Abstract: Laser power transmission (LPT) is one of the most promising technologies in the long-range wireless power transfer field. LPT research has been driven by the desire to remotely power unmanned aerial vehicles, satellites, and other mobile electric facilities.

Wireless Laser Power Transmission: A Review of Recent Progress - IEEE Journals & Magazine
In this chapter, an overview of recent advances in the field of battery-less NFC sensors at 13.56 MHz is provided, and a comparison to other short-range RFID technologies is given. After reviewing power transfer in NFC, recommendations for the practical design of NFC-based sensor tags and NFC readers are made.

NFC Sensors Based on Energy Harvesting for IoT Applications | IntechOpen
Therefore, wireless power transfer (WPT) is a trend. There are four types of WPT:

magnetic induction coupling, magnetic coupling resonance, laser, and microwave. Among them, microwave power transmission has a bright prospect, since it is not limited by distance and it does not require a precise angle . But WPT has low energy efficiency due to electromagnetic wave diffraction in the case of indoor non-line-of-sight (NLOS) and causes electromagnetic radiation pollution around the room in the ...

Long-Distance Wireless Power Transfer Based on Time Reversal Technique | IntechOpen
While some of the companies promising WPT are still working to deliver products, Qi (pronounced "chee") charging is standardized, and devices are currently available. The Wireless Power Consortium (WPC), established in 2008, developed the Qi standard for battery charging.

Introduction to Wireless Power Transfer - Technical Articles
1. Introduction. Wireless power transfer (WPT) dates back to over two centuries ago. In 1899, Nikola Tesla conducted experiments into the transmission of electrical energy without wires in Colorado Springs, USA , .In 1961, John Schuder proposed a transcutaneous energy system for implanted devices .By wirelessly powering a model aircraft in 1964, William Brown validated the feasibility of ...

A review of recent trends in wireless power transfer technology and its applications in electric vehicle wireless ...
TDK's wireless power transfer coil boasts the latest magnetic technologies Higher electric transmission efficiencies attainable at higher frequencies (generally in the range of 100 to 200 kHz) is the reason why electromagnetic induction wireless power transfer system for smartphones etc. utilizes this frequency band.

Wireless Power Transfer Products | Tech Notes | Wireless Charging | TDK Product Center
Investigation of power transfer density enhancement in large air-gap capacitive wireless power transfer systems. Proceedings of the IEEE Wireless Power Transfer Conference (WPTC), May 13–15, Boulder. Lim Y, Tang H, Lim S, Park J. 2014. An adaptive impedance-matching network based on a Novel capacitor matrix for wireless power transfer.

Wireless Charging of Electric Vehicles | Power Electronics
No Outlet, No Problem: This New Technology Could Power Your Gadgets Wirelessly A startup says its innovative system can deliver power to devices up to 7 feet away

No Outlet, No Problem: This New Technology Could Power Your Gadgets Wirelessly | Innovation | Smithsonian Magazine
Reasonance is a fundamentally new tech that differs from all known methods of wireless power transfer. It is based on classic magnetic resonance but brings it to the next, advanced level.