Microgrids and wireless power transmission

This paper presents a general circuit and control design method for wireless power transfer (WPT) systems in DC microgrids to achieve optimal power transfer efficiency, while maintain ...

The ability to autonomously dock unmanned ground vehicles plays a key role in mobile micro-grids, where efficient power transfer is paramount. The approach utilized in this work allows for near-field ...

Wireless power transfer is a promising solution since it enables power delivery without cables, providing well-behaved flexibility for power supplies. Here we propose a compact wireless...

By integrating EMROD"s Wireless Power Transmission technology into an HR-governed network, a seamless and robust connectivity infrastructure can be established. This enables real-time...

Deep learning optimization of microgrid economic dispatch and wireless power transmission based on blockchain technology are studied.

The prominence of inductive power transfer, magnetic coupling, and electromagnetic fields reflects the growing interest in employing these mechanisms for energy-efficient wireless power ...

In this work, real-time emulation of a bidirectional wireless power transfer (WPT) system capable of dc microgrid formation is investigated on the field-programmable gate array (FPGA).

Microgrids are ecologically clean and green, deregulated, and decentralized, and can reduce the burden on the utility grid if they are operated reliably. However, these systems possess unsteady generation ...

First, the related theories and methods of microgrid systems, wireless power transmission, and deep learning optimization based on blockchain technology are introduced. Next, ...

Microgrids have a lot to offer, including helping smart grids operate on distribution grids or bringing electricity to some cities. The management system receives and transmits different ...

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