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Wireless base station power transmission protocol



Overview

Can communication base stations transmit power wirelessly?

Therefore, we consider not only transmitting data from communication basic stations to these IoT sensors, but also transmitting power wirelessly. In this study, we proposed a communication and wireless power transmission system based on communication base stations.

Can communication and wireless power transfer be performed in a time-divided manner?

In this study, we proposed a communication and wireless power transmission system based on communication base stations. Furthermore, we demonstrate that communication and Wireless Power Transfer (WPT) can be performed in a time-divided manner from the same communication device by beamforming for each terminal.

What are the applications of wireless power transmission systems?

Many different fields make use of wireless power transmission systems. In this paper we discussed about the applications of wireless power transfer in automobile applications, biomedical applications, consumer electronics and space applications.

How to reduce power-intensive base stations?

To address the issue of power-intensive base stations, proposed a combined approach involving base station sleep and spectrum allocation. This approach aims to discover the most efficient operating state and spectrum allocation for SBS to minimize power consumption and network disturbance.

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However, the deployment of numerous small cells results in a linear increase in energy consumption in wireless communication systems. To enhance system efficiency and ...

To further reduce energy consumption during transmission, this protocol utilizes prim's minimum spanning tree mechanism to route data from the ...

Wireless power transfer (WPT) is a promising technology that has the potential to revolutionize the present methods of power ...

The objective of establishing a WPT link with a mobile IoT module and reading the incoming signals requires an RF base station with two main functions: wireless power ...

The typical wireless communication system consists of three parts, i.e., core network, access network, and mobile unit. The largest fraction of power consumption in ...

Lots of research and development efforts have been made in wireless industry, aiming for environment-friendly power solutions which lead to green wireless communications.

...

To reduce the extra power consumption due to frequent sleep mode switching of base stations, a sleep mode switching decision algorithm is proposed. The algorithm reduces

...

Wireless power transfer (WPT) is a promising technology that has the potential to revolutionize the present methods of power transmission. This paper aims to provide an

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Abstract and Figures Wireless power transfer (WPT) is a promising technology that has the potential to revolutionize the present methods of power transmission.

This paper measured and compared the noise spectrum of the wireless base station power prototype with and without the original filter. The ideal insertion loss (IL) of the original ...

There is an increasing and growing demand for IoT sensors in a variety of fields. We can expand the range of their use, if we can wirelessly transmit power to these IoT ...

To further reduce energy consumption during transmission, this protocol utilizes prim's minimum spanning tree mechanism to route data from the active nodes to the Base

Station (BS).

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