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Mobile communication micro base station power

Overview

Can power models be used for macro and micro base stations?

In this paper we developed such power models for macro and micro base stations relying on data sheets of several GSM and UMTS base stations with focus on component level, e.g., power amplifier and cooling equipment. In a first application of the model a traditional macro cell deployment and a heterogeneous deployment are compared.

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.

Are cellular base stations a future-proof power model?

Debaillie, C. Desset, and F. Louagie, “A flexible and future-proof power model for cellular base stations,” in IEEE 81st Vehicular Tech-nology Conference (VTC Spring), 2015, pp. 1–7. S.

What is a base station power consumption model?

In recent years, many models for base station power con-sumption have been proposed in the literature. The work in proposed a widely used power consumption model, which explicitly shows the linear relationship between the power transmitted by the BS and its consumed power.

Mobile communication micro base station power

[Micro Base Stations in Load Constrained Cellular Mobile ...]

Future cellular mobile radio networks will exhibit a much more dense base station deployment than 2nd or 3rd generation communications systems, particularly with regard to ...

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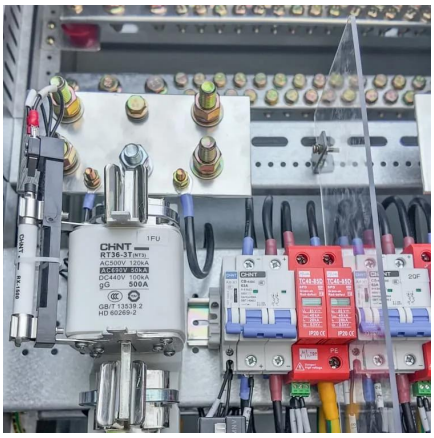

Broadband Doherty Power Amplifier Applied to Mobile Communication Micro

A broadband Doherty Power Amplifier DPA (Doherty Power Amplifier) is designed for mobile communication micro base station, and its operating frequency range is ...

[Power Consumption Modeling of Different ...]

In wireless communications micro cells are potentially more energy efficient than conventional macro cells due to the high path loss exponent. Also, heterogeneous deployments of both cell types

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[Base station power control strategy in ultra-dense networks ...]

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

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Power Consumption Modeling of 5G Multi-Carrier Base ...

However, there is still a need to understand the power consumption behavior of state-of-the-art base station architectures, such as multi-carrier active antenna units (AAUs), ...

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A Device that Controls the Power Supply Sources of a Mobile

In this research work, the classifications of the device that controls the energy supply sources of the mobile communication base station are presented. The device is used to ...

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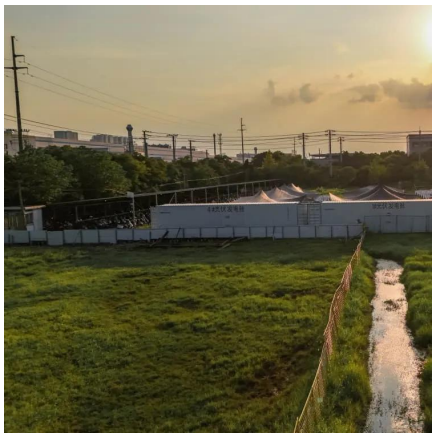

Energy Consumption Optimization Technique for Micro ...

By obtaining the optimal beamforming factor and introducing the target user distance control factor, every user get the best power allo-cation to improve the recognition ...

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[Mathematical Modelling of the Power Supply System of ...]

Abstract: The Stable operation of mobile communication base stations depends on a continuous and reliable power supply. Power outages can lead to a decrease in ...

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Energy-saving control strategy for ultra-dense network base stations

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques ...

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[Micro Base Stations in Load Constrained Cellular Mobile ...]

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[Power Consumption Modeling of Different Base Station ...]

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