ContainerPower Energy Solutions

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.

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.

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.

Does multi-carrier MIMO meet Carrier Aggregation?

D. L´opez-P´erez et al., “Energy Efficiency of Multi-Carrier Massive MIMO Networks: Massive MIMO Meets Carrier Aggregation,” in IEEE IEEE Global Communications Conference (GLOBECOM), Dec. 2021.

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