

These massive machine-type communications (mMTC) are defined by their low throughput and small payload wireless connectivity to accomplish high power-, size-, and cost-constrained sensor nodes.

How does a base station work?As shown in Figure S3 each user accesses a base station, and the BS then allocates a channel to each new user when there is remaining channel capacity.

Based on the theoretical-integrated approach, a working model of the algorithm for the stable organization of the power supply system of the base stations of the mobile communication system is ...

In this article, a mathematical model of the power supply system for a mobile communication base station is developed. Based on the developed mathematical model, the mobile communication base ...

In this article, an algorithm for automatic control of energy sources was developed to improve the uninterrupted power supply of mobile communication base stations. Based on the proposed ...

Supercapacitors are electrochemical energy storage devices that can find several applications in the power systems for telecommunications. The principle of these components is explained ...

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This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a description ...

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