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Tytuł: Design of base station power supply system

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The common base station power supply system is powered by a 48 V DC bus, which is connected to the DC load and backup battery [12, 13].

The energy saving at base transceiver station can be achieved by using three basic power saving phenomena's: sleep mode, power saving strategy and power saving mechanism (e.g. RAPS

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High Voltage Direct Current (HVDC) power supply HVDC systems are mainly used in telecommunication rooms and data centers, not in the Base station. With the increase of power density and voltage

Abstract Base-station power designs must make trade-offs among size, efficiency, and performance. New power solutions based on digital telemetry are simple, flexible, and scalable. Base

This paper presents three such alternate frameworks for power supply to the BTS in case of a power failure; to supply uninterrupted and continuous power to the sites, and suggests that

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This

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An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters. And through

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In view of the characteristics of the base station backup power system, this paper proposes a design scheme for the low-cost transformation of the decommissioned stepped power battery before use ...

Therefore, a solar-based dual power supply strategy is proposed to tackle the electricity bills in this article. The strategy consists of the Grid-Connection Depth (GCD) model and the Battery Energy

The high level conceptual figure of the energy-efficient future base station (BS). Block diagram of the proposed BS structure. Example of the

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