

Failure analysis (FA) helps improve the production of electronic products at RF/microwave frequencies, and it can also be applied to achieve production success with mmWave systems.

A telecom base station in a remote location is a lifeline. It connects isolated communities, supports emergency services, and enables digital economies. When this station loses power, the impact is ...

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

Voice-over-Internet-Protocol (VoIP), Digital Subscriber Line (DSL), and Third-generation (3G) base stations all necessitate varying degrees of complexity in power supply design. We discuss factors ...

A method to evaluate the post-earthquake functionality of communication base stations using Bayesian network is developed.

This article will explore in detail how to secure backup power for telecom base stations, discussing the components involved, advanced technologies, best practices, and ...

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 ...

One of the primary tasks for effective disaster relief after a catastrophic earthquake is robust communication. In this paper, we propose a simple logistic method based on two-parameter sets of ...

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