

EQACC SOLAR

Base station communication recovery method



Overview

This paper proposes a distribution network fault emergency power supply recovery strategy based on 5G base station energy storage. This strategy introduces Theil's entropy and modified Gini coef.

Do communication base stations perform post-earthquake functionality using Bayesian network?

A method to evaluate the post-earthquake functionality of communication base stations using Bayesian network is developed. The dependence between the equipment and its hosting building structure, and the impact of power outages are considered. The method is validated using seismic damage data from the Ludian Earthquake.

What causes a communication base station to fail?

Power interruption is a significant contributor to communication base station functional failure. Communication systems closely rely on power systems, and power outages can result in widespread station interruptions. In the case of the earthquake in Changning County, 90% of disrupted base stations experienced power interruptions as the cause .

What is an indoor base station?

An indoor base station comprises a communication room accommodating various communication equipment and a communication tower responsible for transmitting and receiving information. The communication room is equipped with wireless communication devices, transmission equipment, power supply equipment, air conditioning, and cable routing racks.

Can a Bayesian network be used to assess communication base stations?

This study applies a Bayesian network method to the functionality assessment of communication base stations. The method integrates Fault tree analysis and Bayesian network, and its performance is validated through the observed seismic damage data of the Ludian earthquake.

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Research on power-communication coordination recovery ...

Firstly, according to the corresponding relationship between mobile base stations and power nodes, multi-level grids of distribution networks are divided, and power ...

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Communication Base Station Disaster Recovery , Huijue ...

When Nature Strikes: Can Our Networks Survive? As typhoons batter coastal cities and wildfires engulf telecom infrastructure, one urgent question emerges: How can communication base ...



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WO/2025/094805 COMMUNICATION DEVICE, BASE STATION, AND COMMUNICATION METHOD

A communication device (100) according to one embodiment comprises: a reception unit (112) that receives, from a base station (200), BFR configuration information that ...

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Communication Base Station Repair Procedures , Huijue ...

The Maintenance Revolution Ahead
While current base station repair standards focus on rapid recovery, tomorrow's protocols will emphasize prevention through embedded IoT sensors and ...

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Post-earthquake functional state assessment of communication base

This paper proposes a Bayesian network method to evaluate the post-earthquake functionality of communication base stations. The method considers the dependence between ...

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Resilient Distribution System Restoration with ...

The DSC, which is an aerial wireless base station, can move in the affected area autonomously and provide a fast and reliable alternative for wireless communications. The ...

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BEAM FAILURE RECOVERY METHOD OF BASE STATION IN WIRELESS COMMUNICATION



1. A beam failure recovery method of a base station (BS) in a wireless communication system using a reconfigurable intelligent surface (RIS), the beam failure recovery method comprising: ...

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Optimizing redeployment of communication base ...

Signal coverage quality and strength distribution in complex environments pose severe challenges, leading to the inadequacy of traditional two-dimensional base station ...



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Reliability prediction and evaluation of communication base stations ...

Abstract 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 ...

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Distribution network restoration supply method considers 5G base

Finally, a two-stage robust optimization model is introduced to minimize system operating costs to solve the volatility of 5G base station communications and wind-solar ...

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