

How to communicate when the earthquake base station is disconnected

Do earthquakes affect communication base stations?

Analyzing and summarizing these observed seismic damages can enhance our understanding of the impairment of communication base stations during earthquakes, providing valuable information for establishing a Bayesian network model for functionality loss.

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.

How to assess damage to mobile communication facilities during large earthquakes?

Ke et al. proposed a method for assessing damage to mobile communication facilities during large earthquakes. The study analyzed the impact of power outages and evaluated the damage caused by ground motion to base stations using fragility curves.

What are seismic functional fragility curves for communication base stations?

Seismic functional fragility curves for typical communication base stations are provided. The reliability and resilience of communication base stations are critical to the post-earthquake performance of the communication system, and consequently influence the communication, rescue, and emergence management after an earthquake.

What happens if a communication tower is damaged in an earthquake?

In several major earthquakes, communication tower damage tends to be relatively minor, often lacking obvious damage. However, in high-intensity areas, the apex of some mountaintop base station towers might experience bending and damage, altering or detaching antenna orientations. A few towers might even collapse.

What type of damage does a communication base station suffer?

Based on field investigations after the Yangbi earthquake, this paper categorizes typical seismic damage of communication base stations as follows: Communication infrastructure damage is particularly severe, with building collapse leading to equipment destruction.

As the fundamental facilities of mobile base stations, the damage of SBP and EC in the earthquake is likely to lead to the failure of the function of the whole base station and then ...

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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Therefore, we designed an emergency communication network for disaster response (ECN-DR), which is called Contingency Cellular Network (CCN) [2, 3,4], by ...

The main reasons for the communication failure were the destruction of technology infrastructure, accumulated debris, and extensive flooding that affected the power systems and cabins that ...

In destructive earthquakes occur, regular communications platform by varying degrees of damage, even completely paralyzed.

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 ...

This paper proposes a seismic-based post-earthquake city and cellular network model to statistically predict the status of road closures and base station failures based on fundamental ...

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 ...

To ensure effective communication during the acute phase in the aftermath of large disasters, a new satellite communication device is needed that not only ...

Turn on your portable or car radio for information and safety advisories. Call your out-of-area contact, tell them your status, then stay off the phone. Emergency responders need to use the ...

The Yushu earthquake also severely damaged the communication system in the disaster area, and many base stations were rendered completely inoperable and unable to be ...

communication base stations and prefecture level cities. The test result shows the proposed system is high efficient and can rapidly respond to any emerging parallel tasks ...

The Earthquake Center commonly uses 900 MHz radio relays to communicate between stations in remote areas where other communication options aren't practical or ...

Hytera can provide a complete emergency communication solution including broadband and narrowband ad-hoc network equipment, on-site ...

Place the treasure in the base-in-app, wait for about 10 seconds until the treasure is in the charging state (the AUTO key light will flash), and the station and the treasure will be ...

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However, as in the case of the Noto Peninsula Earthquake, communication can be disrupted if base stations and other facilities are ...

To ensure effective communication during the acute phase in the aftermath of large disasters, a new satellite communication device is needed that not only is portable, battery powered, and ...

Arlo provides customer support services that can assist you in resolving complex issues and getting your base station back online. To prevent Arlo base station offline problems ...

Hytera can provide a complete emergency communication solution including broadband and narrowband ad-hoc network equipment, on-site command and control center, ...

Moreover, the proposed platform, characterized by autonomous wireless 4G/LTE base stations and an Asterisk VoIP server, demonstrates ...

A method and apparatus support a Mobile Station (MS) located in a collapsed cell area to be disconnected from a Base Station (BS) in a wireless communication system.

ABSTRACT Communication networks often experience failures during natural disasters such as floods, making it difficult for affected individuals to access critical information. This research ...

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