
Base station communication abnormality

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 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.

What is a false base station?

2.2. Security Threat from a False Base Station A false base station refers to an unauthorized base station capable of launching attacks on User Equipment (UE) or the mobile communication network. These deceptive entities exploit the common behavior observed in UEs, which is the tendency to connect to stronger wireless signals.

What causes base station functional failure?

In Fig. 6, the causes of base station functional failure (T) are identified: power interruption (I 1), damage to communication room (I 2) (equipment included), and damage to communication towers (I 3).

A device and a method for detecting abnormality in cell coverage in a wireless communication system are provided. A base station includes a communication interface, a memory, and a ...

Abstract This article uses sensor analysis results as the basis for judging the signal status of base station equipments, and combines BP neural network to establish a base ...

In a radio base station used in a mobile communication system, an abnormality of the base station function, such as discontinuation of a transmission radio wave, may occur for some reason, for ...

User equipment connects to the remote Internet and services through multiple nodes, the first of which is a base station. To support its mobility, user equipment connects to ...

The countermeasures include a so-called compensational operation to operate radio base stations on the periphery of the radio base station where the abnormality is detected, a ...

There is a lack of models that can fully evaluate the post-earthquake functional states of base stations with the consideration of the dependencies between different ...

The advancement of cellular communication technology has profoundly transformed human life. People can now watch high-definition videos anytime, anywhere, and ...

Why Do 5G Networks Still Experience Service Disruptions? While global communication base station deployments have surged by 38% since 2021, service interruptions still cost operators ...

It is an object of the present invention to provide a wireless communication apparatus, a wireless terminal apparatus, a wireless base station, and an abnormality restoration method that does ...

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