

Title: Analysis of properties of communication engineering base stations

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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 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.

What is a typical communication equipment room (ground base station)?

Fig. 2. Layout of the typical communication room (Ground base station). 2.1.2. Role of Each Component The main forms of the communication equipment room are civil construction room, color-coated steel room [33, 34], and integrated (container) room.

With the sharp development of mobile communication technology, the coverage area of existing base stations cannot meet the increasing demand of users, so it is significant to establish a ...

Abstract Integrated sensing and communication (ISAC) has opened up numerous game-changing opportunities for future wireless systems. In this paper, we develop a novel scheme that ...

In order to grasp the operation condition of post-earthquake communication base stations, Liu et al. 1 from China Earthquake Administration conducted a study and analysis of typical seismic ...

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 ...

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Increasing number of base station sites with continuously growing customers not only lifted up the total cost of the cellular network but it also has radiation hazard issues affecting health. ...

1. Introduction Recently, with the rapid development of wireless communication technology, the enhancement of wireless network performance is concerned with meeting the ...

With the development of 5G technology, the communication bandwidth is increasing, the coverage of the base station is getting smaller and smaller, and the types and signal coverage ...

The engineering parameters of communication base stations are the core assets of telecommunication operators. It directly determines the quality of the network and the perception of ...

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