Wind power earthquake resistance of communication base stations

The seismic fragility curves described in Fig. 16 will be used to calculate the seismic fragility and post-earthquake functional failure probability of the communication base station and the ...

The effect of Wind and Earthquake on Telecommunication tower with four different types of bracings are studied. The following conclusions can be drawn based on the analysis of results.

Analyzing and summarizing these observed seismic damages can enhance our understanding of the impairment of communication base stations during earthquakes, providing valuable information for ...

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 ...

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

When a 7.8-magnitude earthquake struck Türkiye in February 2023, communication base stations with subpar seismic ratings collapsed within minutes, delaying rescue operations.

This paper presents some of the key findings of the OTC funded research. It aims to systematize power system related experiences of historical catastrophic earthquakes in order to gain knowledge that ...

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Self-supporting steel telecommunication towers with different heights were evaluated considering the wind and earthquake loads. A comparison is made between the results of wind and earthquake loading.

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