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Title: Causes of abnormal wind power in communication base stations

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Accurate and credible operation data sets of wind and solar power stations are the basis of many research works. However, such data sets often contain abnormal data due to failure, ...

Among wind load measurement tests, the wind tunnel test simulates the environment most similar to the actual natural environment of the product and therefore is the most accurate test method.

Using a thorough understanding of the physics and aerodynamics behind wind load, we optimize the antenna design to minimize wind load. This involves using numerical methods such as computational ...

In the big data era, the planning, operation and maintenance of power systems are increasingly dependent on the support of various power data. Wind turbine oper

These distortions can cause different effects on the radio communications services depending on several factors such as the frequency band, the modulation scheme and the discrimination of the ...

High availability of wind power data is the basis for wind power research, but there are a large number of abnormal data in actual collected data, which seriously affects analysis ...

Base station antennas not only add load to the towers due to their mass, but also in the form of additional dynamic loading caused by the wind. Depending on the aerodynamic efficiency of the ...

This study's main objective is to provide guidelines for wind load calculation on tower body, appurtenances, and other structures and compare the member axial forces induced by the wind ...

We investigate the use of wind turbine-mounted base stations (WTBSs) as a cost-effective solution for regions with high wind energy potential, since it could replace or even outperform ...

# Causes of abnormal wind power in communication base stations

By taking the time to refine measurement techniques to ensure the most accurate possible test results, we are now able to look at pushing the wind loading efficiency of base station antennas.

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