# Large wind temperature deviation generator vibration

This paper realizes the accurate detection and location of electrical faults--generator-side converter faults, with mechanical vibration signal, which is meaningful to develop an accurate and ...

Abstract: A sample of healthy wind turbines from the same wind farm with identical sizes and designs was investigated to determine the average vibrational signatures of the drive train components ...

As critical components to transfer wind power into electric energy, drivetrains of wind turbines inevitably face challenges of higher vibration and noise. However, under the new situation ...

This paper explores the critical issue of vibrations in wind turbines, highlighting their sources, impacts, and the advancements in damping mechanisms designed to mitigate these ...

Over the years, various control systems have been developed to attenuate and mitigate vibration on wind turbines. This paper provides a critical and up-to-date review of wind turbine ...

Vibration sensor requirements, such as bandwidth, measurement range, and noise density are discussed in relation to common faults on WT components. Figure 1 and Figure 2 illustrate the wind ...

Wind energy has great potential for development in clean energy. The economic loss caused by the destruction of the wind turbine tower in a wind turbine failure is very huge. Therefore, this paper ...

This paper aims to examine the sources of vibration in wind turbines, their effects on turbine performance and durability, and recent advancements in damping mechanisms designed to mitigate ...

To maintain low costs, the current research examines the problem of vibrations affecting wind turbine towers" performance (WTTs). In particular, the tower, resulting from excessive...

Suppression schemes, including crossing resonance zone method and tower damping control, are evaluated, and a robust variable-pitch strategy based on sliding mode control is ...

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