

Analysis of the cause of abnormal noise from generator blades

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Unwanted vibration is the main cause of the mechanical breakdown of the gas turbine in the Combined Cycle Power Plants. Unbalancing of the rotor shaft is the most common reason in ...

This paper presents operational experience of vibration analysis for blade related failures and rubs from the blades (rotor and stator blades) as well as a supporting laboratory study with ...

In this article, you will learn how to use vibration analysis to detect and troubleshoot common noise problems in motors and generators. Find expert answers in this ...

Numerous statistical studies have pointed out that generator failures are a main cause of wind turbine system downtime. The generator, as one of the core components, converts rotating ...

The abnormal broadband noise and vibration have occurred in the generator in the driveline of the internal combustion engine power plant. This paper focuses on the ...

Abstract: Rotor eccentricity faults can cause uneven air gaps in the generator, reducing power quality and increasing vibration noise, eventually leading to abnormal operation.

In order to analyse flow-induced noise distribution law under the defective runner blade, this paper performs defective treatment on the runner blade according to the HLA855a-LJ-250...

In view of the above problems, the present invention aims to provide a system and a method for detecting the abnormal noise of a fan blade of a wind turbine generator, which combine the...

The underlying cause of this noise is the interruption of the low velocity blade wakes (figure E.6) by the following stators. The stators feel intermittent changes of lift, which affect their pressure field and ...

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It was found that the cause was that the natural frequencies of the blades are close to their Kamen excitation frequencies, resulting in resonance. Measures were taken to raise the Kamen excitation ...

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