Vibration detection of wind turbine blades

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The present study identifies various faults in wind turbine blades from the acquired vibration signals. Various statistically obtained features were computed from time-domain vibration signatures ...

Wind turbines are designed to extract wind energy from available 6 wind ows in the atmosphere. Blade bearings, as the critical parts of wind turbines, are used to pitch blades 7 for optimized ...

Research Progress of Wind Turbine Blade Damage Fault Detection Technology: ZHOU Jifeng 1, SHI Teng 2,3, XU Bofeng 2,3,+: 1. NR Electric Co. Ltd., Nanjing 211102, China; 2. College of ...

In this paper, the vibration-based assessment of a small-scale wind turbine (WT) blade is experimentally investigated, with the aim of establishing a benchmark case study for the SHM community. The structure ...

for four fault types of large wind turbine blades. Keywords: multi-channel convolutional neural network; wind turbine; fault detection; triaxial vibration 1. Introduction As wind turbines are ...

The paper describes results of numerical simulation for damage localization in the composite coat of a wind turbine blade using modal parameters and a modern damage detection method ...

In this paper, a lightweight wind turbine blade damage detection network MC-YOLO is proposed to overcome the problems of the current wind turbine blade defect detection algorithm, for ...

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