

The current and power fault frequency tracking previously identified achieved reliable fault detection for two realistic wind turbine generator fault scenarios of differing severity.

The operation of large offshore wind turbines in harsh environments and in the presence of highly varying stochastic loads, often leads to the occurrence of faults, requiring ...

A rapid increase in wind power generation has led to bird collisions becoming a serious problem worldwide. Developing useful sensitivity maps to select low-risk sites for birds is an urgent issue.

Abstract. Knowledge about the expected duration and intensity of wind power ramps is important when planning the integration of wind power production into an electricity network. The ...

The problem of energy depletion has brought wind energy under consideration to replace oil- or chemical-based energy. However, the breakdown of wind turbines is a major ...

In order to build the model, two features were considered: the wind speed and power production. The wind farms are located in the Rio Grande do Norte State, which is located in the Brazilian Northwest Region, and are ...

In the case of the NREL dataset, although the gearbox damage was more complex than in a typical operational wind turbine and the dataset provided refers to only one speed and load operational condition, the SBPF ...

The power coefficient is a function of tip speed ratio and pitch angle addition to these two parameters, the power capture from a wind turbine depends on the other factors ...

wind turbines. Keywords: wind turbine; fault detection; fault classification; fault diagnosis; principal component analysis; support vector machines; (Fatigue, Aerodynamics, Structures ...

The production of wind energy is a crucial part of sustainable development and reducing the reliance on fossil fuels. Maintaining the integrity of wind turbines to produce this ...

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Wind energy has become a significant competitor to traditional fossil fuel energy. The use of renewable energy (RE) in the generation of electricity and transportation has grown ...



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