

Operational conditions of wind turbine generators

2014. The development and implementation of the condition monitoring systems (CMS) play a significant role in overcoming the number of failures in the wind turbine generators that result ...

In this study, the possibility of simulating some transient and deterministic extreme operational conditions for horizontal axis wind turbines based on the IEC 61400-1 standard using 60 ...

Condition monitoring is beneficial to the wind industry for both land-based and offshore plants. However, because of the variations in operational conditions, its potential has not been fully ...

Abstract. In this study, the possibility of simulating some transient and deterministic extreme operational conditions for horizontal axis wind turbines based on the IEC 61400-1 standard using 60 individually controlled ...

wind turbine induction generators that experience constantly varying operational conditions, the following criteria were researched. 2.1. Criterion ? For a wind turbine induction generator, ...

This paper has been based on a large dataset of wind turbine operation, which has come from various wind turbine models and terrain conditions. It has investigated the ...

Operational modal analysis (OMA) is an essential tool for understanding the structural dynamics of offshore wind turbines (OWTs). However, the classical OMA algorithms require the ...

The risk of oscillation of grid-connected wind turbine generators (WTGs) is well known, making it all the more important to understand the characteristics of different WTGs and analyze their performance so that ...

Section 1 - What is Wind Energy? Wind energy is an important, clean, and renewable resource that can be harnessed to generate electricity. Wind energy is produced through the movement of air over the Earth's surfaces. To generate ...

75 The operation and maintenance of the wind turbine mounted on the spar-type substructure is similar to that of a bottom-xed offshore wind turbine. A campaign-based inspection and ...

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