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Double roller wind turbine generator

Overview

A new power system with new energy as the main body will be built. Wind power generation will become an important part of the new power system. Compared with onshore wind power, offshore wind power h.

Double roller wind turbine generator

Design and verification of a novel double rotor without stator wind

Abstract The operation condition of wind turbine is complex with frequent load disturbances. However, the traditional rigid connection wind turbine has shortcomings in rejecting ...

Rolling Bearings for Wind Turbine Generator

Recently the development of large-sized wind turbine generators having a power capacity of 3 MW or more and a blade diameter of 100 meters or more is advancing, requiring the use of larger rolling ...

Study of the double rotor double machine wind turbine generation ...

Doubly fed induction generator (DFIG) and permanent magnet synchronous generator (PMSG) as the traditional wind turbines are widely used in wind power industry. But they still have ...

Overview of Dual-Port Machines for Wind Power Generator Applications

The key challenge of declining torque density in magnetless machines, especially for large-scale wind turbines, is addressed by exploring dual port (double stator or double rotor) machines.

Dual-Rotor Wind Turbine

We have developed a new dual-rotor wind turbine (DRWT) technology that aims to mitigate these two losses. One DRWT has been designed using an existing turbine rotor (the NREL ...

in Wind Turbine Main Shafts and Gearboxes

in Wind Turbine Main Shafts and Gearboxes The need for larger megawatt (MW) class turbines has increased, but scaling up traditional turbine designs is not the answer. Wind operators can select ...

Symmetrical Triboelectric In Situ Self-Powered Sensing and Fault

This paper presents an innovative, integrated symmetrical single-electrode triboelectric double-row tapered roller bearing (SST-DTRB) by incorporating a triboelectric nanogenerator ...

Development and mathematical

modelling of a dual-rotor machine for ...

Insufficient power grid support for wind turbines has become evident as wind energy use rises, particularly with bigger turbines. This paper introduces a modeling approach for a dual-rotor

Symmetrical Triboelectric In Situ Self-Powered Sensing and Fault

A novel symmetrical single-electrode triboelectric double-row tapered roller bearing is developed for in situ condition monitoring in wind turbines. The system converts operational friction into electrical ...

Design of a Dual Rotor Wind Turbine and construction of a Testing Rig

From this project, I was able to show utilizing theoretical analysis, computational analysis and experimentation that the addition of the second rotor increased the efficiency of the system by as

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