

A vibration damping device for wind turbine generators that reduces vibrations and extends the life of wind power generation equipment. The device uses a circular housing with ...

This paper aims to reduce vibration in wind turbine towers using an active damper named the twin rotor damper (TRD). A single degree of freedom (SDOF) oscillator with the TRD is used to ...

Floating wind turbines need damping devices to provide a stable working state and structural safety. Damping systems are often used for offshore floating constructions based on ...

These methods have demonstrated effectiveness in tuning controller parameters and enhancing damping performance in power systems. However, they also present certain limitations ...

To address the challenge of suppressing low-frequency vibrations in offshore wind turbine towers under complex environmental loads, this paper innovatively proposes a pendulum ...

The embodiments of the present application provide a damping integrated device, a damper, and a wind power generator. The damping integrated device can simultaneously meet the frequency...

This paper explores the critical issue of vibrations in wind turbines, highlighting their sources, impacts, and the advancements in damping mechanisms designed to mitigate these ...

Elastomeric and viscous dampers are advanced materials and devices integrated into wind turbine structures to effectively absorb and dissipate vibrational energy, reducing stress on critical ...

Offshore wind turbines (OWTs) exhibit intense vibrations due to complex environmental loads, such as wind, waves, earthquakes, and currents. This study pioneeringly investigates the ...

Wind turbine generators, e.g., doubly-fed induction generators (DFIGs), have little inertia, thus reduce power system stability and intensify low-frequency oscillation (LFO). The LFO previously ...

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