

Title: Wind turbine pulsating wind

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Under the pulsating wind action, the maximum values of the wind coefficient- and wind moment coefficient-related components of the DCSTPS are affected by changes in the altitude angle ...

According to this new technology, a periodic collective motion of blade pitch generates a dynamic induction, associated with a stronger flow mixing and therefore a faster wake recovery.

To investigate the wind-induced vibration characteristics of photovoltaic array tracking supports, this study uses the harmonic superposition method to simulate pulsating wind time series...

The literature has studied the effect of wind on StF but only with continuous wind. Here, we show for the first time the influence of pulsating wind by studying the StF transition on wood ...

Pulsing thrust influences wake development Periodic blade pitching results in harmonic variations in the thrust force This pulsing thrust force causes movement in the platform

In the present study, to investigate the dependence of VAWT performance on the moment of inertia in unsteady wind, the response of a straight-bladed VAWT to a pulsating wind is measured, ...

Using an unsteady Reynolds-averaged Navier-Stokes simulation, the effects of the dynamic variations in blade pitch are investigated on the unsteady aerodynamic behavior of an ...

Pulsating wind speed can be considered the arbitrariness of the wind sites, wind spectrum characteristics, building characteristics and other conditions, which is simulated using a linear ...

The video shows the volume rendering of the vorticity field in the wake of a wind turbine operated with the Pulse control to enhance wake recovery by periodically varying its thrust [1].

Therefore, this paper proposes a flexible transmission scheme for instantaneous power to optimize the



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performance of the modified CHB-QAB converter.

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