

Wind turbine with wind rudder

How Do Wind Turbines Work? Wind turbines work on a simple principle: instead of using electricity to make wind--like a fan--wind turbines use wind to make electricity. Wind turns the propeller-like ...

Based on the finite element theory, an analysis about the changing of rotor vibration mode of the wind turbine with and without rudder at static state, and a research was carried out to study the impact of ...

The purpose of this investigation was to ascertain to what extent turbulence affects wind turbine operation and measure precisely the variation in the angle of incidence of the approaching ...

This paper details improving a wind turbine blade's aerodynamic, aero-acoustic, and structural properties under different operating conditions, focusing especially on active and passive ...

According to the wind turbine generator, two, three, four or more generators can be manufactured according to practical conditions.

This invention relates in general to offshore wind turbines, and more specifically to an apparatus and method for yawing an offshore wind turbine while mitigating the effects of aeroelastic instability.

This paper aims to simulate motions of wind turbine with free yaw and the rudder under wind direction change. Rudder's contribution to yaw alignment under operating condition is presented in this paper ...

The invention relates to a wind turbine generator adopting a wind speed rudder for controlling backward speed regulation.

This paper presents two electromechanical systems used for the overspeed protection of small wind turbines. The actuators have the purpose of rotating the back rudder (tail vane) of the ...

Building-mounted micro-wind turbines are capable of contributing a significant proportion of a building's energy needs. However, the introduction of this technology in built-up areas has been...



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