

The invention relates to a self-generating power supply for monitoring blades of a wind-driven generator, and belongs to the field of piezoelectric power generation.

This application relates to a technical field of a wind power generation device, and particularly relates to a blade apparatus for wind power generation and a wind power generation device.

Abstract: This paper investigates the effects of various Wind Turbine blade pitch angles on the electrical power generation capability of a Dual-Rotor Cascaded Horizontal Axis Wind Turbine ...

Recycling and efficient utilization of scrap WTBs is critical to achieve green, low-carbon, and sustainable development, to meet environmental protection requirements. This chapter focuses ...

Most of wind power generation blades are resin glass fiber reinforced plastic products, and different temperature requirements are imposed on blade molds in different working procedures...

By 2050, more than one-third of total electricity demand will be supplied by onshore and offshore wind power together, making wind power generation a prominent source (Lu et al., 2020).

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 ...

An improved over-sampling balancing algorithm SC-SMOTE (safe circle synthetic minority oversampling technology) is proposed to optimize data sets and a fault diagnosis method based on ...

Through an exploration of the evolution from traditional materials to cutting-edge composites, the paper highlights how these developments significantly enhance the efficiency, ...

This manuscript delves into the transformative advancements in wind turbine blade technology, emphasizing the integration of innovative materials, dynamic aerodynamic designs, and ...

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