

Title: Strength of wind turbine wind tunnel

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To better document the flow physics at play, the results are illustrated by infrared thermography and surface oil flow visualization. The test allowed investigating Reynolds number effects between 1 and ...

Wind tunnel tests were conducted to measure the rotational speed, total lift, drag and torque of the wind turbine with different structural parameters at varying wind speeds.

The authors believe that this work can provide investigators with deeper insights into wind tunnel experiments for WTs and promote the development of more advanced measurements and ...

In this work, we propose a wind turbine regulator based on blade-pitch actuation and assess the impact of adopted turbine derating strategies on aerodynamic loading and downstream ...

This chapter reviews the wind tunnel testing of scaled wind turbines and farms, which in recent years is finding an increased interest by the scientific community for aerodynamic, aeroelastic and control ...

In dieser Diplomarbeit werden die Grundlagen der Energiegewinnung durch Windkraftwerke und Modellierung von Windturbinen durchgearbeitet, wobei der Fokus dieser Arbeit auf der Entwicklung ...

This article reports about a wind-tunnel experiment carried out in the ONERA F2 low-speed wind tunnel on a model of the DU 97-W-300Mod airfoil designed for wind turbine application.

To determine whether and under what conditions wind-induced fatigue damage needs to be considered in tall steel structures, this study investigates wind-induced fatigue failure through wind ...

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