

Wind-resistant design of wind turbines



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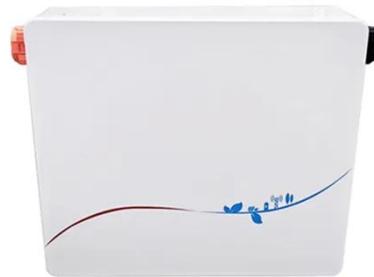
Review on Wind Resistance, Seismic Resistance and Vibration

As an important structure supporting the wind turbine, the wind power tower is faced with the complex environmental impact of wind load and seismic load during operation. This paper reviews the current ...

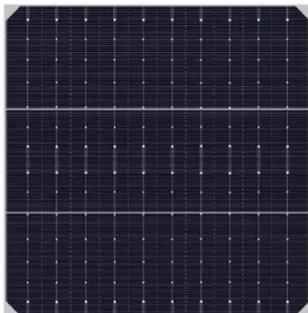
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This study introduces two novel mechanisms for designing bladeless wind turbines to address this issue, enabling operation across a broad wind speed range from 2 to 10 m/s while ...



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Study on load distribution characteristics and wind-resistant

The increasing size of wind turbines has amplified the effects of wind veer, leading to significant differences in the response of wind turbines under varying wind fields. This study, based ...

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...

To reduce costs, energy consumption, and safety management difficulties, increasingly tall buildings are adopting connected structures. Due to the complex dynamic characteristics and ...

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What are the best wind-resistant design for 2025?

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A STUDY OF WIND-RESISTANT SAFETY DESIGN OF WIND TURBINES

...

During the last decade, many wind turbine towers damage were caused by typhoons strike repeatedly. As the cost impact of buckling failure, this study starts to investigate the characteristics of wind ...

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A novel optimal design approach for bladeless wind turbines ...

A novel optimal design approach for



bladeless wind turbines considering mechanical properties of composite materials used Zeinab Mohamed¹, Moataz Soliman², Mohamed Feteha² & ...

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A STUDY OF WIND-RESISTANT SAFETY DESIGN OF WIND ...

The authors have investigated some failures from geometric properties of wind turbine tower due to typhoon strike (Jang, and Chien, 2009), developed the procedure of Wind-Resistant ...



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