Guan Liu Wind Power Generation Wind Measurement Tower

In this study, three wind speed distributions of kernel, Weibull, and Rayleigh type for estimating average wind power density were first compared by using meteorological tower data from 2018 to 2020 under ...

In this paper, we propose a method to monitor the health of wind turbine towers based on stereo vision. Our approach extracts the tower central axis from the image based on the structural ...

Based on wind measurements from 1991 to 2011 on a 15-level 325 m meteorological tower in Beijing, we assessed the potential of wind resource using the Weibull function and the wind atlas...

According to the current main wind turbine design specifications, the necessary parameters for wind load assessment of wind turbine tower are discussed.

As the demand for renewable energy continues to grow, the development of innovative solutions for measuring wind turbine performance is critical for advancing the sustainability and ...

Vertical axis wind power generation involves using a vertically oriented rotor to convert wind energy into mechanical energy, which is then transformed into electrical energy by a generator. ...

We assessed winds trends in five reanalysis products (ERA5, ERA-Interim, MERRA-2, JRA-55, and CFSv2) by comparing gridcell time series of 10-m wind speed with observational data from 1439 in ...

A wind power short-term forecasting method based on discrete wavelet transform and long short-term memory networks (DWT_LSTM) is proposed. The LSTM network is designed to ...

In order to accurately and reliably calibrate wind power in complex terrains, this study employs an improved algorithm combined with large eddy simulation (LES) method to investigate the impact of ...

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