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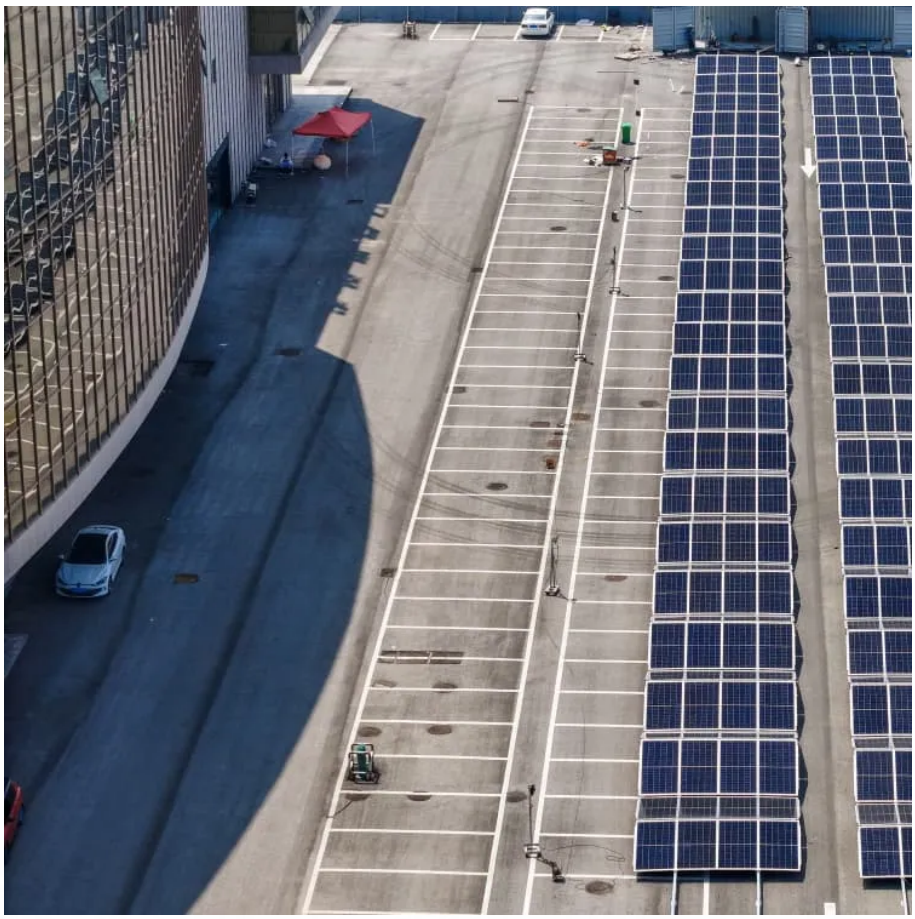
Wind turbine impeller system



Overview

Can logical framework and pseudo-code be used to model wind turbine impeller?

Therefore, one high efficient approach for geometric modeling of wind turbine impeller is proposed by this study, and the validity of logical framework and pseudo-code of each part correspondingly is confirmed through several applications upon modeling of impeller, with time-efficient to shape in the process-designed.

Can 3D model of impeller for wind turbine improve CFD analysis?

It is a very important fundamental work that 3D-model of impeller for wind turbine can be achieved precisely, in order to enhance the credibility of CFD analysis in subsequent calculations. However, the current studies do not emphasize closely on the modeling with time-saving and high efficient.

Can a hydraulic accumulator power a wind turbine?

British Company (Artemis Intelligent Power) [26, 145] installed the hydraulic accumulator on the high-pressure pipeline of the hydraulic wind turbine. After testing, it was found that due to the application of the energy storage device, the generator can not only output stable power when the wind fluctuates, but also the efficiency can reach 90%.

How does a wind power generation system work?

Traditional wind power generation technology uses a rotor to transmit wind energy to a gearbox and then to a generator to generate electricity [, ,]. The engine room is equipped with turbines, transmission systems, gear boxes and generators , which are very heavy, and the tower must have high strength .

Wind turbine impeller system

(PDF) Analysis of Impeller Type Wind Turbine

The new global development for wind turbines obliged inventors to create new wind turbine designs that have high efficiency and better than known designs. This paper proposes the ...

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A Rapid 3D-Modeling Method for Impeller of Wind Turbine

It is a very important fundamental work that 3D-model of impeller for wind turbine can be achieved precisely, in order to enhance the credibility of CFD analysis in subsequent ...

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Empirical Investigation Study of Impeller Wind Turbine

A vane wind turbine maximises a wind turbine's kinetic energy harvesting capacity. Due to their shape and construction, ordinary three-blade propellers practically have an ...

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A Rapid 3D-Modeling Method for Impeller of Wind Turbine

Therefore, one high efficient approach for geometric modeling of wind turbine impeller is proposed by this study, and the validity of logical framework and pseudo-code of ...

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Reliability optimization of vertical axis wind turbine impeller

The Vertical Axis Wind Turbine (VAWT) has attracted extensive research attention due to its inherent benefits, including straightforward manufacturing processes, low cost, and ...

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Application and analysis of hydraulic wind power generation ...

Compared with the traditional wind power system, the hydraulic wind turbine has some advantages. First, the bulky gear box can be omitted, and the hydraulic motor and ...

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An in-depth quantitative analysis of wind turbine blade ...

The wind impeller is the key component of the wind turbine system to capture wind energy and withstand the wind load. The cost ratio is about 20% of the whole machine cost, ...

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