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Title: Photovoltaic support load-bearing and wind power

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The wind-induced vibration characteristics of the photovoltaic support system are investigated from a time-domain analysis perspective, offering valuable insights for the wind resistance design of array ...

A scaled model was used to simulate the test of photovoltaic support pile foundation under wind load, and the pressure, permeability, and load transfer law of the soil around the pile ...

This paper shows how to increase the energy efficiency of photovoltaic power plants with a somewhat different approach to constructive solutions of load-bearing structure. ...

In this paper, we mainly consider the parametric analysis of the disturbance of the flexible photovoltaic (PV) support structure under two kinds of wind loads, namely, mean ...

PV supports, which support PV power generation systems, are extremely vulnerable to wind loads. For sustainable development, corresponding wind load research should be carried out on ...

To investigate the wind-induced vibration characteristics of photovoltaic array tracking supports, this study uses the harmonic superposition method to simulate pulsating wind time series...

As the bearing structure of PV power generation systems, PV panel supports are highly sensitive to wind load, which may cause damages. Therefore, wind load is the most important load in the design of PV ...

Flexible photovoltaic (PV) support structures are limited by the structural system, their tilt angle is generally small, and the effect of various factors on the wind load of flexibly supported PV

In this study, a 45 m span flexible PV support structure with 3 spans and 12 rows was designed. The wind loads on PV panels were obtained by wind tunnel tests on a rigid model and the ...



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