Photovoltaic flexible support collapse incident

This paper focuses on multiple value propositions to discuss a digital business model based of solar photovoltaic fishery on a case with a local Chinese photovoltaic agricultural company.

With the rapid development of social economy, human activities and engineering construction have increased, resulting in fragile geological environment and frequent ground collapse ...

Ma et al. (2021) investigated the effects of wind direction, inclination angle, spacing ratio and installation position on the wind loads of the flexible PV modules support structures.

This paper presents a systematic work around the wind-induced response and instability characteristics of the large-span flexible PV support array, the results are of significance for the ...

The influence of critical parameters, such as panel inclination angle, wind direction angle, and template gap, on the wind-induced response of the flexible PV support was compared and ...

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 ...

The model can be used to quantify the coupling strength and influence degree of each risk factor on the occurrence of road collapse accidents, which in turn can predict the ...

First, an elastic test model of the flexible PV modules support structure was designed and manufactured. Second, a series of wind tunnel tests based on the elastic test model were carried out ...

Abstract Flexible photovoltaic (PV) support systems have low stiffness, low damping, and may suffer from aerodynamic instability, especially fluttering, under wind loads. Reliable structural ...

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