

In this study, a novel hydrodynamic-structural-material coupled analytical model is developed for a very large floating photovoltaic support structure made with UHPC and EPS ...

The utility model relates to the technical field of supports, in particular to an anti-seismic reinforced photovoltaic flexible support.

The flexible photovoltaic support system can realize the large span of the suspension cable structure, reducing the amount of support steel and the number of support foundations, and greatly lowering ...

To improve the span and stiffness and widen the application scene of the flexible photovoltaic support system, a new type of three-dimensional cable-truss flexible photovoltaic support system is proposed ...

To better understand the structural behavior and prevent potential failure, this study presents a simplified analytical model for the design of double-layer flexible cable photovoltaic ...

In order to respond to the national goal of "carbon neutralization" and make more rational and effective use of photovoltaic resources, combined with the actual photovoltaic substation project, a fixed ...

The vertical support system is composed of steel columns and inter-column supports, and its role is to withstand and transfer the vertical force of the new flexible photovoltaic support system.

This study involves the development of a MATLAB code to simulate the fluctuating wind load time series and the subsequent structural modeling in SAP2000 to evaluate the safety performance of flexible ...

In the photovoltaic (PV) solar power plant projects, PV solar panel (SP) support structure is one of the main elements and limited numerical studies exist on PVSP ground mounting steel frames to be a ...

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