

The results show that: (1) according to the general requirements of 4 rows and 5 columns fixed photovoltaic support, the typical permanent load of the PV support is 4679.4 N, the wind load being 1 ...

The serpentine pile exhibits a significantly higher ultimate uplift bearing capacity of 70.25 kN, which is 8.56 times that of the square pile and 10.94 times that of the circular pile.

Distributed rooftop photovoltaic power plants are developing rapidly, and flexible roofs are generally based on color steel tile structure roofs or concrete structure roofs. In order to solve ...

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This study has comprehensively investigated the bearing characteristics of three types of photovoltaic support piles, serpentine piles, square piles, and circular piles, in desert gravel areas. Through numerical ...

A series of experimental studies on various PV support structures was conducted. Zhu et al. [1], [2] used two-way FSI computational fluid dynamics (CFD) simulation to test the influence of ...

In recent years, the advancement of photovoltaic power generation technology has led to a surge in the construction of photovoltaic power stations in desert gravel areas. However, traditional equal cross-section ...

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