Photovoltaic support foundation antifreeze design

In this study, the frost jacking characteristics of steel pipe screw piles for photovoltaic support foundations in high-latitude and low-altitude regions are studied via in situ tests and numerical ...

This paper investigates the frost depths and adfreeze stress related issues with the foundation piles of solar PV facilities hence the governing design forces on these piles and suggests appropriate frost ...

This study reviews the frost related design/ construction issues and associated adfreeze forces in context of foundation design for the solar energy production facilities in North America and creates ...

To study the frost jacking performance of photovoltaic support steel pipe screw pile foundations in seasonally frozen soil areas at high latitudes and low altitudes and prevent ...

In this study, the frost jacking characteristics of steel pipe screw piles for photovoltaic support foundations in high-latitude and low-altitude regions are studied via in situ tests and ...

The invention provides a frozen soil area solar photovoltaic support foundation and a construction method, which comprises a pile foundation, wherein the pile foundation comprises a column...

The province of Ontario (Canada) has become an ideal place for the installation of these facilities both for the low temperatures acting in the area and the support given by the Canadian government to ...

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

The paper discusses approximate engineering solutions of several parameters involved in the design of deep shaft frozen walls. It focuses on active frost penetration before the steady state ...

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