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Title: Calculation of the pull-out resistance of photovoltaic support foundation

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In this paper, to characterize the pull-out process of anchor in concrete, we combined the cohesive zone model and the finite element method. The embedding cohesive elements simulate the contact effect ...

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These surveys are crucial for determining the appropriate parameters for pull-out tests (POT) and ensuring the structural integrity of photovoltaic installations.

During the test, a continuous tensile load is applied until the anchor slips out of the ground. The maximum value recorded indicates the degree of resistance of the anchor to pull-out. ...

This study engages the use of numerical modelling to establish the foundation reaction concerning the uplift or pull-out loading. The numerical model uses the finite difference method ...

To improve pull-out resistance of solar array foundations, a comparative experimental study was done to determine the pull-out capacity of steel pile having varying diameter and length in ...

Zoning The objective of the Pull Out test is to evaluate the behavior of the profiles used in the support structures of the tables or panels of a photovoltaic installation, based on the characteristics of the ...

Calculation of the pull-out resistance of photovoltaic support foundation

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This article provides recommendations based on the extensive experience of ORBIS TERRARUM in static load tests or pull-out tests for photovoltaic plants in several countries around the world.

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In this study, the structure under consideration is the single pile foundation structure of solar panels.

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