

Can solar photovoltaics control corrosion in cathodic protection systems?

Finally, it is indicated that applying solar photovoltaics in powering cathodic protection systems has great efficacy in controlling the corrosion in the facility's equipment in a smarter, controlled way.

Can concrete storage tank be used as container material in CSP plants?

A pilot plant characterization study was carried out using a concrete storage tank to be proposed as container material in CSP plants. After a thermal test using solar salt (60% NaNO₃ + 40% KNO₃) some cracks and penetration of salt (14.5 cm) were detected in the concrete tank during 120 hours of test at 565 °C.

What is a photovoltaic cathodic protection system?

The technique of cathodic protection is used to control corrosion in the utilisation of reinforced concrete structures, pipelines, storage tanks, etc. A photovoltaic cathodic protection system is normally used as an energy source to supply the system.

What are the components of a solar photovoltaic generation system?

A solar photovoltaic generation system consists of many components, including solar cell photovoltaic modules, a controller, a regulatory system, and a storage system (Artyukhov et al. 2020). Solar photovoltaic modules are used with structural components to generate DC power directly from solar radiation (Ebrahimi and Ranjbar 2018).

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This study evaluates the proposal of a concrete storage tank as molten salt container, for concentrating solar power applications. A characterization of the thermal and mechanical properties ...

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In this work, we take a further step towards the experimental realization of this attractive concept, by investigating possible approaches, requirements and prospects for the practical design ...

Advancements in concentrating solar power (CSP) plants are essential for the wider adoption of these technologies. Increasing the operating temperature of the plants is one of the most ...

Corrosion is a phenomenon that occurs on pipes, reinforced concrete structures, and storage tanks and causes a major impact on the facility structures and can have a major impact on a ...

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