Trough solar tracking control system

This study introduces a novel automated solar position tracking system for parabolic trough solar collectors, designed for distributed heating applications from a system engineering ...

A distributed energy system with multi-source cooperative heating that relies primarily on trough solar thermal heating with high efficiency is designed due to low tracking accuracy in ...

In this paper, a PLC-based sun-tracking system for parabolic trough solar concentrator which could track the sun along one axes was designed and implemented. In the system, the tracking...

Parabolic trough systems require accurate, reliable, and robust solar trackers to achieve their maximum thermal efficiency. This paper presents a dual closed-loop control strategy for single ...

A PTSC necessarily needs some devices to operate appropriately, such as a pump for the forced circulation of heat transfer fluid (FTC), a temperature and flow monitoring system, and also a ...

A sun tracking system incorporated into a parabolic trough collector for precise control is presented in this study. The collector"s rotation axis is aligned with the east-west direction.

Abstract--A sun tracking system incorporated into a parabolic trough collector for precise control is presented in this study. The collector"s rotation axis is aligned with the east-west direction.

Our goal is to bring the tracking system of the parabolic trough back into service. The purpose of this project is to refurbish a parabolic solar panel that also has an automatic tracking system. The unit ...

Consequently, in order to improve the performance of the device, this paper presents the sizing, implementation and testing of a single-axis solar trajectory tracking system in a small-scale parabolic ...

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