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PLC-based control of solar tracking system

This paper is proposed for a sun tracking system based on LDR sensor using PLC for rotating motor. The paper shows how to develop and implement a single axis solar tracking system with minimum cost.

This paper presents a new design of a Three-axis solar tracking system which is based on Programmable Logic Controller (PLC). The automatic tracking system of solar radiation is done on ...

This research paper presents the design, implementation, and performance evaluation of a single-axis solar tracking system (SASTS) employing Siemens programmable logic controller (PLC) ...

This project presents the design and development of an automatic solar tracking system to enhance the efficiency of solar energy collection. The system uses a Mitsubishi Fx2S- 30M PLC as the central ...

A solar tracker is simulated and tested successfully using plc, in that it achieved an overall power collection efficiency increase from the same panel on the tracking device.

The version described in the thesis implements a Siemens PLC based solution, relying on a tracking algorithm to locate the position of the sun; more specifically, the configuration of the linear motors ...

Overview Solar panel tracking systems optimize energy output of photovoltaic panels by positioning them to follow the sun"s path throughout the day. The sun"s position in the sky varies both with ...

It can be concluded from the simulated and experimental results of this paper that the proposed web-control scheme based on the combined campus network and PLC is valid and feasible.

In this paper, monitoring and controlling of solar panel is executed by Allen Bradley MicroLogix 1400 PLC which is the main controller of system and SCADA.

The circuit and the mechanism explained in this article may be considered as the easiest and perfect dual axis solar tracker system.The device is able to track the daytime motion of the sun precisely and ...

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