

The invention relates to a high-precision intelligent sun-chasing system and a control method thereof. The system comprises one or a plurality of lighting panels with a sun tracking ...

A dual-axis solar tracking system with a novel and simple structure was designed and constructed, as documented in this paper. The photoelectric method was utilized to perform the tracking. The solar radiation ...

Discover the Sun Chasing Sentinel, a single-axis solar tracking system designed to optimize solar energy capture through precise east-west motion. In this vi...

Integrated sun-chasing solar street light, the solar tracking system controls the solar photovoltaic panel to follow the sun from dawn to sunset, the battery can be independently disassembled ...

Abstract-- Conventional street light system consume large amount of power. So by using a flexible lighting technology the system can be made more efficient. The purpose of this paper ...

Intelligent Solar Chasing Street Light System Design and Fabrication Summaries ... the helm module based on these data to drive the solar panel to rotate within a ...

El Shenawy ET, Kamal M, Mohamad MA (2012) Artificial intelligent control of a solar tracking system. J Appl Sci Res 8(8):3971-3984. Google Scholar Engin M, Engin D ...

As China promotes the development of new energy, the solar energy project is one focus of the country. Due to the imperfection of photoelectric and mechanical solar tracking and positioning ...

The results indicated that the automatic solar tracking system is low-cost, reliable and efficient and has an overall increase of about 8%~25% more than the fix-angle PV ...

Utilization of solar powered system as renewable energy alternatives plays a dominant role in generating electricity. Throughout the years, solar tracking system has been continuously ...

This project proposes the design of automatic cleaning function and automatic light source tracking system for solar street lamps. The external environment is detected by sensors, and ...

The main elements of a typical solar tracking system are the sun-tracking system, control unit, positioning system, drive mechanism, and sensing devices. The system architecture of the optical sensor-based and ...

Solar energy can be easily converted into electrical energy by using solar panels. Solar panels that are placed horizontally on the ground, the solar panel cannot absorb ...

This paper designs a biaxial solar ray automatic tracking system, which combines sun-path tracking with photoelectric detection tracking. When the system is running, the ...

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Compared with the traditional solar street lights on the market, the intelligent solar light chasing road system introduced in this project has significant advantages. Its unique ...

The results showed that the designed solar intelligent tracking system could realize the intelligent tracking of solar panel to sunlight, and could complete remote control; in addition, the system had the advantages of simple structure ...

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Designing of Solar Cell Panel Sun Chasing System on Basis of MSP430 Micropower Single Chip Microcomputer. The system uses MSP430 micropower single chip microcomputer as ...

To solve the shortcomings of the open-loop and closed-loop systems, we developed an intelligent system for driving the mechanism of an experimental solar photovoltaic tracker. With the use ...

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