51 single chip microcomputer solar light tracking system

The purpose of this paper is to design a solar LED lighting system controller based on 51 single chip microcomputer. Through optimizing the hardware and software design, the intelligent control level, energy efficiency and reliability of the system are improved to meet the needs of different application scenarios.

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 weather condition is judged by photosensitive resistance at first. The cloudy day adopted the sun-path tracking by getting the time date in the clock module. The azimuth and ...

In this article, we put forward a new method of designment of the automatic tracking system of solar energy based on one-chip computer and self-sufficient power. The method uses silicon ...

However, the intelligent performance of the existing system controller is insufficient, which limits its practical application effect. The purpose of this paper is to design a solar LED lighting system controller based on 51 single chip microcomputer. Through optimizing the hardware and software design, the intelligent control level, energy ...

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This paper presents a temperature control system that utilizes the AT89C51 microcontroller as its control core. The system collects and converts temperature data through the use of a DS18B20 temperature sensor. The paper provides detailed explanations of the system scheme design, hardware design, and software design, with simulation tests conducted using Keil software ...

In this article, we put forward a new method of designment of the automatic tracking system of solar energy based on one-chip computer and self-sufficient power. The method uses silicon photo-cell and store electricity equipments as power; Machinery rotary actuator adjusts the direction of solar panel automatically according to

the direction of ...

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The main objective of this paper is to develop a microcontroller-based solar panel tracking system which will keep the solar panels aligned with the Sun in order to ...

Light Chasing Charging System Based on Single-Chip Microcomputer Gang Liu*, Yongxi Liang School of Electrical and Electronic Engineering, Guangdong Technology College, Zhaoqing Guangdong Received: Aug. 28th, 2024; accepted: Sep. 21st, 2024; published: Sep. 29th, 2024 Abstract By combining solar energy with automatic light chasing technology, a solar dual -axis ...

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