

Header solar control system





Overview

What is control of solar energy systems?

Control of Solar Energy Systems details the main solar energy systems, problems involved with their control, and how control systems can help in increasing their efficiency. Thermal energy systems are explored in depth, as are photovoltaic generation and other solar energy applications such as solar furnaces and solar refrigeration systems.

How a solar emergency control system would work?

The computer and System Control Unit would have a wireless communication with the mechanical structure of solar panel. To make emergency control better more powerful microcontrollers e.g. PIC 16F877A would be used. The designed that system which ensures 25 to 30% of more energy conversion than the existing static solar module system.

How easy is it to implement automatic solar tracker?

VB based GUI of ASTS This automatic solar tracker is easy to implement since its construction is simple. With the implementation the proposed system the additional energy generated is around 25% to 30% with very less consumption by the system itself.

What software & hardware are included in a solar system?

The software includes: VB 6.0 based GUI. Microsoft Access Database. Embedded Software (written microcontroller AT89c52. 2.2. The hardware includes: • Solar panel assembly structure containing functional sensors, stepper motor and solar cells. System Control Unit containing LCD, Keypad, Error Indicators and Emergency Stop switch.



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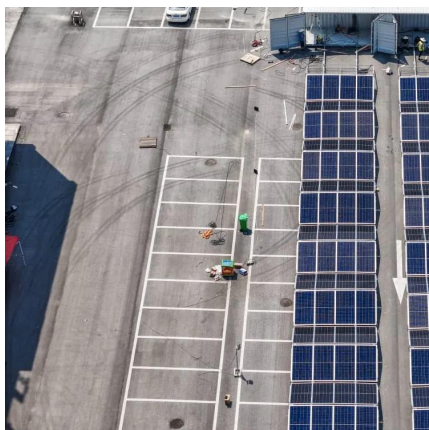
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