



# Solar cell intelligent control system

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PWM switches solar controller power devices by supplying constant power battery charging. MPPT charge controllers maximize PV module output.

In the rapidly evolving field of renewable energy, integrating Artificial Intelligence (AI) and the Internet of Things (IoT) has become a transformative strategy for improving solar energy ...

This paper addresses the smart management and control of an independent hybrid system based on renewable energies. The suggested system comprises a photovoltaic system (PVS), a wind energy ...

In this paper, the photoelectric method is used to track the position of the sun, the control process is modeled and simulated in the system. The system is optimally controlled by adding a Kalman filter to ...

This study presents a novel approach for integrating solar PV systems with high input performance through adaptive neuro-fuzzy inference systems (ANFIS). A fuzzy neural inference ...

In this paper, an advanced neural network-based control for the inverter is utilized to dynamically optimize inverter settings for the abatement of common power quality problems.

PV forecasting was essential to enhancing the efficiency of the real-time control system and preventing any undesirable effects.

There are three methods by which efficiency of collection process can be improved and these are: sun tracking, maximum power point tracking method, and both. This paper presents sun tracking ...

This research presented a novel control strategy to effectively manage a grid-linked solar photovoltaic system. The proposed strategy is applied to ease power quality issues like harmonic ...

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