

Design of control program for solar panel navigation system

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Abstract: This topic focuses on designing and implementing an efficient control program for a solar panel tracking system, aiming to optimize panel brightness during operation. The selection of this topic is based on the necessity to enhance the operational efficiency of renewable energy systems in practical applications. The research method combines theory and experimentation to determine the optimal panel tracking method. Accordingly, the goal is to develop an applicable solution that can be widely deployed, bringing significant value to the use of renewable energy.

Keywords: pin navigation system, solar energy, control program, brightness optimization, renewable energy