Design and fabrication of mechanical structure for solar panel tracking system

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Abstract: In the context of the increasingly widespread use of renewable energy, this topic focuses on the design and fabrication of an efficient mechanical structure for a solar panel tracking system. The main objective is to optimize the rotation angle of the panels to increase electrical conversion efficiency. Through theoretical and experimental research, the applied method aims to improve automation capabilities and enhance accuracy in the tracking process. The topic not only provides a new design solution but also makes a significant contribution to the development of solar panel technology.

Keywords: mechanical structure, navigation system, solar battery