

Abstract

Alaa Eldin Ahmed Khalil

POSITION CONTROL OF SUN TRACKING SYSTEM

Abstract - This paper presents the experimental investigation of a sun tracking system. The design and implementation of the overall system mechanical setup and the positioning control circuits are carried out in the (AAST) lab. Tracking systems try to collect the largest amount of solar radiation and convert it into usable form of electrical energy (DC voltage) and store this energy into batteries for different types of applications. The sun tracking systems can collect up to 50% more energy than what a fixed panel system collects. Therefore, the proposed system is easy to implement and efficient.