

MINIMUM HELIOS ORBITAL MODELING WITH ARDUINO@NANO CHIPS FOR DRIVING SOLAR ENERGY SYSTEM

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ABSTRACT

Recently, it has become important to bind the most use of the green technology as the power saving strategy. Several applications of the solar energy with specifically designed storage and conducting component for providing the solar illuminating system is being proposed. Yet, just a few of the designs that considers the working with the micro-controller unit (MCU) for the conduction of the solar light into the environmental illuminating. To complete this task, construction an appropriate sunlight illuminating model with the relative movement of the sun respect to the earth for the MCU is recorded. With ray tracing and scattering model, variations in the energy flux of the moving Helios can be calculated, which shows the feasibility of present methodology.

KEYWORDS: Sunlight model, natural light system (NLS), micro-controller unit (MCU), Arduino@Nano