

## عنوان مقاله:

NEW METHOD OF CONTROL FOR SOLAR PANELS AND STERLING DISH

## محل انتشار:

سومین کنفرانس بین المللی رویکردهای نوین در نگهداشت انرژی (سال: 1392)

تعداد صفحات اصل مقاله: 10

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## خلاصه مقاله:

Solar energy technologies use the sun's energy to provide heat, light, hot water, electricity, and even cooling, for homes, businesses and industry. There are a variety of technologies that have been developed to take advantage of solar energy. Solar thermal systems seek to store heat from the sun that can be used for a variety of purposes. Many different approaches can be employed here, including active systems. Also for obtain maximum efficiency production electricity from sun we need to solar tracker because the solar tracking control system is able to keep equipment like sun dish and photovoltaic cell align with sun. The output power produced by high-concentration solar thermal and sun dish systems is directly related to the amount of solar energy acquired by the system. It is therefore necessary to track the sun's position with a high degree of accuracy without any damage to equipment's. Accordingly, this article will include the design and construction of a microcontroller-based solar dish tracking system and finally Thermal energy produced by sun dish can be used for one cycle of sterling motor to generate electricity or cooker and absorption .chiller for producing cooling weather from heat of sun

## کلمات کلیدی:

PID controller, Motor DC, Encoder, Analog to Digital Convertor (ADC), Pulse width modulation (PWM), Sterling dish

## لینک ثابت مقاله در پایگاه سیویلیکا:

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