

## عنوان مقاله:

A Novel Temperature Estimation Method for Solar Cells

## محل انتشار:

دومین کنفرانس بین المللی الکترونیک قدرت و سیستم های درایو (سال: 1389)

تعداد صفحات اصل مقاله: 6

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### خلاصه مقاله:

In this paper, an effective approach for estimating the operating temperature of a photovoltaic (PV) module is presented. The developed method is simple and does not need any additional hardware. The proposed approach uses an analytical formula to derive the temperature from the maximum power point (MPP) voltage and current. The effectiveness of the new method is investigated through some conducted simulations in MATLAB/Simulink .environment and its validity is verified by experiment on REC-AE220 solar modules

**کلمات کلیدی:**Solar Cell Temperature, PV, MPPT

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https://civilica.com/doc/152830

