

## عنوان مقاله:

Simulation of Solar Cell by Using Artificial Neural Network Method for Maximum Power Point Tracking of Solar Panel

## محل انتشار:

دومین کنفرانس ملی انرژی و توسعه پایدار (سال: 1394)

تعداد صفحات اصل مقاله: 5

## نویسندگان:

azadeh ahmadi - Islamic Azad University, Tehran Science and Research Unit, PhD student of energy systems engineering- energy modeling

abtin ataei - Islamic Azad University, Tehran Science and Research Unit; PhD course energy systems engineering- energy modeling full professor

## خلاصه مقاله:

In order to meet the need for a promising development, it must be made to increase the efficiency of photovoltaic systems and to decrease the cost of energy from the sun. Optimum system designs have to be made to pay less than for photovoltaic systems, as well as panel prices. Simulation and modeling of solar cells is very important for the photovoltaic system design. The main subject of this article is simulation and the derivation of mathematical model of Photovoltaic solar cells having a diode equivalent circuit by using Neural Network Method in Matlab Simulink programming and drawing of current-voltage and power-voltage characteristics. In this paper, maximum power point tracking of solar panel using artificial neural network control is developed and simulated in Mat lab

## کلمات کلیدی:

photovoltaic, Neural Network, Simulation, current-voltage, Matlab

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/517932>

