بخشی از ترجمه مقاله

عنوان فارسی مقاله:
شیبی ساز بديع و دقيق فتوولتائيةي مبتني بر مدل هفت پارامتری

عنوان انگلیسي مقاله:
A novel and accurate photovoltaic simulator based on seven-parameter model

توجه!
این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
5. Conclusion

In this paper, a comprehensive electrical modeling of PV has been carried out and a generalized PV simulator has been proposed and designed in MATLAB/Simulink software package. The proposed simulator has been developed as a masked block. It can simulate any number of panels connected in series and parallel. It has shown that the developed simulator can generate the real $I-V$ and $P-V$ curve of PV under different operating conditions including the harsh condition of partial shading. Further, the designed simulator can also be utilized in a complete PV system interfaced with different power electronic devices and MPPT controllers. Four different tests have been conducted and the results of these tests verify the effectiveness of the proposed simulator. It is envisaged that the developed PV array simulator can be very helpful for the PV design engineers in the simulation study prior to experimental verification.