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Title: Universal variable measurement of photovoltaic panels

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This paper describes a low-cost virtual instrumentation of PV panel characteristics based on Arduino and Excel. The proposed instrumentation system is able to make acquiring, monitoring and storing ...

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# Universal variable measurement of photovoltaic panels

For this purpose, this work presents a fast, simple, and precise approach of PV parameters extraction to obtain an exact model which more accurately emulates the photovoltaic ...

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