Maximum Power Point Tracking Using Fuzzy Logic Control[*]

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Abstract

Fuzzy logic control is used to connect a photovoltaic system to the electrical grid by using three phase fully controlled converter (inverter), This controller is going to track the maximum power point and inject the maximum available power from the PV system to the grid by determining the trigger angle that must be applied on the switches: Linguistic variables are going to be chosen to determine the amount of change in the trigger angle of the inverter to track the maximum power.

Keywords: Fuzzy logic, Photovoltaic system, Inverter, Maximum power point tracking.

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