

عنوان مقاله:

A New Method of Maximum Power Point Tracking for DFIG Based Wind Turbine

محل انتشار:

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خلاصه مقاله:

In this paper, different operational regions of doubly fed induction generator (DFIG) based wind turbine (WT), from viewpoints of rotor speed, generated power, tip speed ratio (λ) and the angle of blades of the WT's rotor, is studied and classified. Then a new fast and explicit method of maximum power point tracking (mppt) will be proposed. The method is based on the difference between optimum and current rotational speed of the shaft of WT. The proposed method is compared with another method to unfold the superior one. This comparison will be done based on the .speed of operation and quality of generated power and the results shows the priority of the proposed method

کلمات کلیدی:

wind turbine, DFIG, mppt, rotational speed

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