عنوان مقاله:

Assessment and design of wind turbine based on multi-objective improvement during the unbalanced grid

محل انتشار:

اولین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مهندسی برق و کامپیوتر (سال: 1395)

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خلاصه مقاله:

Nowadays distributed generation is a proper solution for remote areas power supplying. In this paper, the evaluation of wind turbine stability in unbalance condition (voltage sag and fault) will be done. In this research a controller system is designed including PI, PID and sliding mode controller and some especial equation. This system had a advantage to earlier sliding controller against disturbances. In the other hands one of the Eigen and fast application of the proposed system is resistance and control of system against grid faults and disturbance without any physical and mechanical limits. The simulation result of a 1.5MW wind turbine in Matlab/Simulink verify proposed controller performance.

کلمات کلیدی:

wind turbine; equations specific code; PI and PID controller; chattering problem; stability output

لینک ثابت مقاله در پایگاه سیویلیکا:

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