عنوان مقاله:

Dynamic Analysis of Wind Turbine Impelemented with Series Connected Induction Generator

محل انتشار:

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خلاصه مقاله:

Series Connected Induction Machine is a wound rotor induction machine whose rotor and stator windings have been series connected with the sequence of two converse phases. Inthis paper, dynamic behavior of a wind turbine implemented with series connected induction generator (SCIG) is studied. Inthis regards, SCIG has been connected to an infinite bus through a short transmission line. Dynamic equations of series connectedinduction generator is introduced and presented. The system'smodeling has been done analytically using the differential equations dominant on its behavior. The aforementioned equations have been solved using Rang-Kutta order-four method.

کلمات کلیدی:

wind power; series connected induction generator; dynamic analysis; modelling