Switching control of self-excited induction generator under steady state conditions

Abstract

This paper presents a Matlab based simulation model to regulate the terminal voltage and frequency of three phase self-excited induction generator using switching control. A new block in Matlab has been developed for steady state analysis of three phase self-excited induction generator wherein the output voltage and frequency of generator remains constant irrespective of changes in consumer load. The model involves a switching system comprising of number of suitable resistive elements connected in parallel to the load. Simulated results on a test machine are found to be well within the tolerable limits.

References


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**Index Terms**

Computer Science

Control Systems
Keywords
Self-excited Induction Generator  Switching System  Matlab  Wind Energy.