

## Analysis of Flux-Linkage Performance of DFIG by Using Simulink under Different Types of Faults and Locations

**Authors :** Mohamed Moustafa Mahmoud Sedky

**Abstract :** The double-fed induction generator wind turbine has recently received a great attention. The steady state performance and response of double fed induction generator (DFIG) based wind turbine are now well understood. This paper presents the analysis of stator and rotor flux linkage dq models operation of DFIG under different faults and at different locations.

**Keywords :** double fed induction motor, wind energy, flux linkage, short circuit

**Conference Title :** ICEMDS 2015 : International Conference on Electric Machines and Drive Systems

**Conference Location :** Barcelona, Spain

**Conference Dates :** August 17-18, 2015