

Abstract Submission Form Title

Power flow simulation of 5 bus system and fault stability analysis

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Abstract:

The submitted model, implemented in Modelica language, presents a five bus power system with 2 third order generators at bus 1 and bus 4 and loads are connected at the 4 of the buses. A 3 phase line to ground fault is generated between bus 3 and 5 at 1.5sec and the fault is cleared at 2 seconds. The graph generated shows how the voltage profile at the buses is varied during the whole period of time and how the voltage is stabilised after the fault is cleared.