

Title : Fault analysis of 6-bus System implementation in *OpenModelica* using *OpenIPSL*

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Abstract :

Modelica implementation of the 6 bus power system under faulty condition. This model is implemented in OpenModelica using OpenIPSL library. The power system consists 3 generators, 3 loads, 11 power lines. A three phase balanced fault is simulated at 5th Bus for the duration of 0.6 seconds (5 seconds to 5.6 seconds). The purpose of this power system simulation is to fault analysis and the voltage stability at multiple buses.