Title: Modelling of 10 bus system using Modelica and OpenIPSL

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Abstract:

The 10-bus power system (Glover's text book Case) has 7 generating units, ten buses, nine transmission lines (PwLine) lines, and four transformers. The system base is 100 MVA and bus 1 is considered as a swing bus. A three-phase balanced fault is given at a bus and opening of transmission line is simulated in one of the buses for the duration. The purpose of this power system simulation is to study the voltage stability at multiple buses.