ABSTRACT SUBMISSION FORM

UNSYMMETRICAL FAULTS ON POWER SYSTEMS USING MODELICA AND OpenIPSL

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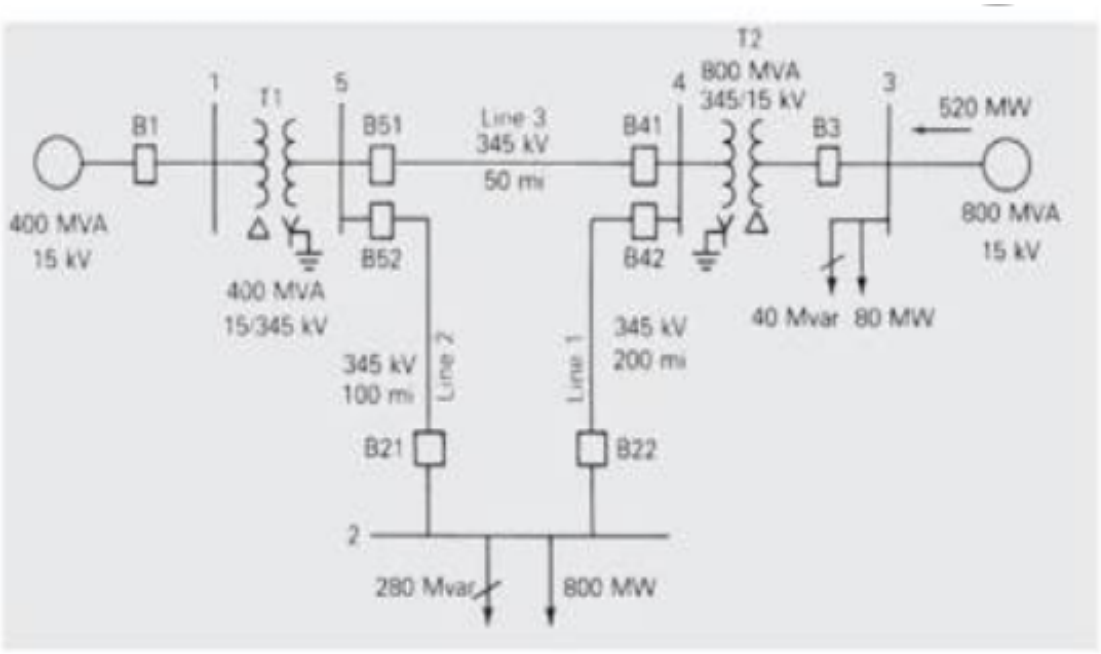
***ABSTRACT**:*

Most of the faults that occur on power systems are unsymmetrical faults, which may consist of unsymmetrical short circuits, unsymmetrical faults through impedances, or open conductors. Unsymmetrical fault occurs as single line-to-ground faults, line-to-line faults, or double-line-to-ground faults. The aim of the model is to simulate different scenarios of the power system under fault condition. The output of this model is to calculate the fault current, corresponding voltage and power in the power system under fault condition.



Five bus power system

REFERENCE: Power System Analysis by John J. Grainger, William D. Stevenson, JR.