CLOSED LOOP CONTROLLED INTERLINE POWER FLOW CONTROLLER SYSTEM

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Abstract

Electric utilities are continuously looking for new devices that will enable interconnected systems to have increased power transfer capabilities with transmission lines. Interline power flow controllers are capable of balancing the powers in multiline system. The aim of this work is to develop a Simulink model for closed loop controlled IPFC system. A four bus system with the incorporation of IPFC is simulated using MATLAB and the results are presented. The changes in real and reactive powers by including IPFC are studied. The simulation results are compared with theoretical values.

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