

Abstract Details

Title: Transient Stability Analysis of Power System Network with TCSC Controller

Authors: Abhishake jain, Vikas yadav, Yogesh

Abstract: Transmission networks of modern power systems are becoming increasingly stressed because of growing demand and restrictions on building new lines. One of the consequences of such a stressed system is the threat of losing stability following a disturbance. Flexible ac transmission system (FACTS) devices are found to be every effective in stressing a transmission network for better utilization of its existing facilities without sacrificing the desired stability margin. Flexible AC Transmission System (FACTS) controllers, such as Thyristor Controlled Series Compensator (TCSC), employ the latest technology of power electronic switching devices in electric power transmission systems to control voltage and power flow, and play an important role as a stability aid for and transient disturbances in an interconnected power systems.

Keywords: FACTS, TCSC, FSC, PGCIL, SMIB.