



Power System Control and Stability

Anderson P.M. Et.Al

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This book describes the mechanical system that drives electric generators and the dynamic reaction between the prime mover and generator systems. It analyzes the dynamic performance of interconnected power systems and examines the characteristics of various components of a power system during normal operating conditions and disturbances. It also explores detailed mathematical models of system components and analyzes the system behavior using necessary computational tools. Table of contents:prefacepart i: introductionchapter 1: power system stabilitychapter 2: the elementary mathematical modelchapter 3: system response to small disturbancespart ii: the electromagnetic torquechapter 4: the synchronous machinechapter 5: the simulation of synchronous machineschapter 6: linear models of the synchronous machinechapter 7: excitation systemschapter 8: effect of excitation on stabilitychapter 9: multi machine systems with constant impedance loadspart iii: the mechanical torque power system control and stabilitychapter 10: speed governingchapter 11: steam turbine prime moverschapter 12: hydraulic turbine prime moverschapter 13: combustion turbine and combined-cycle power plantsappendix a: trigonometric identities for three-phase systemsappendix b: some computer methods for solving differential equationsappendix c: normalizationappendix d: typical system dataappendix e: excitation control system definitionsappendix f: control system componentsappendix g: pressure control systemsappendix h: the governor equationsappendix i: wave equations for a hydraulic conduitappendix j: hydraulic servomotorsindex

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