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A power system is continuously subjected to a variety of disturbances. These may vary from minor events like small and random load changes to major events like faults and line tripping. ... Soman, S.A., Khaparde, S.A., Pandit, S. (2002). Power System Dynamics. In: Computational Methods for Large Sparse Power Systems Analysis. The Springer ...

This course will teach fundamentals on power system modeling, dynamics, stability and control, introduce the methods and tools for planning and operating a modern power grid to meet reliability criteria under disturbances.

This book aims to provide insights on new trends in power systems operation and control and to present, in detail, analysis methods of the power system behavior (mainly its dynamics) as well as the mathematical models for the main components of power plants and the control systems implemented in dispatch centers. Particularly, evaluation methods for rotor ...

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