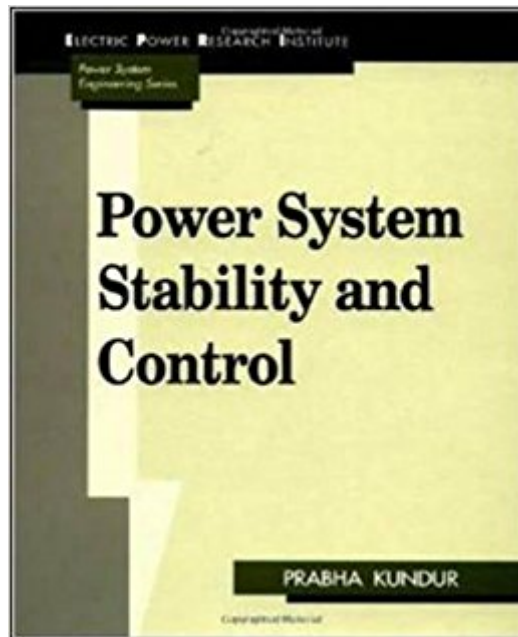




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Power System Stability And Control



Synopsis

Today's electric power systems are continually increasing in complexity due to interconnection growth, the use of new technologies, and financial and regulatory constraints. Sponsored by the Electric Power Research Institute, this expert engineering guide helps you deal effectively with stability and control problems resulting from these major changes in the industry. Power System Stability and Control contains the hands-on information you need to understand, model, analyze, and solve problems using the latest technical tools. You'll learn about the structure of modern power systems, the different levels of control, and the nature of stability problems you face in your day-to-day work. The book features a complete account of equipment characteristics and modeling techniques. Included is detailed coverage of generators, excitation systems, prime movers, ac and dc transmission, and system loads - plus principles of active and reactive power control, and models for control equipment. Different categories of power system stability are thoroughly covered with descriptions of numerous methods of analysis and control measures for mitigating the full spectrum of stability problems. This comprehensive source book is written from a pragmatic point of view, but without undue compromise in mathematical rigor. Filled with illustrative examples, it gives the necessary basic theory and insight into practical aspects.

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Today's electric power systems are continually increasing in complexity due to interconnection growth, the use of new technologies, and financial and regulatory constraints. Sponsored by the Electric Power Research Institute, this expert engineering guide helps you deal effectively with stability and control problems resulting from these major changes in the industry. Power System Stability and Control contains the hands-on information you need to understand, model, analyze, and solve problems using the latest technical tools. You'll learn about the structure of modern power systems, the different levels of control, and the nature of stability problems you face in your day-to-day work. The book features a complete account of equipment characteristics and modeling techniques. Included is detailed coverage of generators, excitation systems, prime movers, ac and dc transmission, and system loads - plus principles of active and reactive power control, and models for control equipment. Different categories of power system stability are thoroughly covered with descriptions of numerous methods of analysis and control measures for mitigating the full spectrum of stability problems. This comprehensive source book is written from a pragmatic point of view, but without undue compromise in mathematical rigor. Filled with illustrative examples, it gives the necessary basic theory and insight into practical aspects.

Prabha Kundur, Vice President, Power Engineering Powertech Labs Inc., Surrey, British Columbia and is also an adjunct professor in the Department of Electrical and Computer Engineering, University of Toronto, Toronto, Ontario

Exactly what I was looking for. This should be every power engineers first fundamental book. I got lost in every other book, but as it says in the preface, this book gathers it all together so the Engineer out of college doesnt have to hunt and buy. In fact, all these advanced books heavily reference it including many standards.

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The best one for power system control.

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a great book full of great information about power system

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