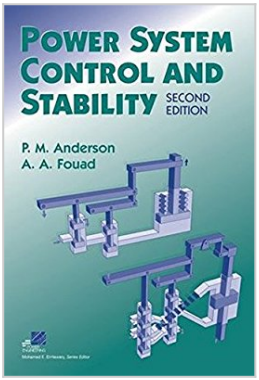

Power System Control and Stability

By Paul M. Anderson, A. A. Fouad

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Analyzes the dynamic performance of interconnected power systems.
* Examines the characteristics of the various components of a power system during normal operating conditions and during disturbances.
* Explores the detailed mathematical models of system components and analyzes the system behavior using the necessary computational tools.

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Editorial Review

Review
"...updating a work first published more than 25 years ago, this book was written for both electric utility engineers and 'advanced students'...each chapter includes a set of problems..." (*Electrical Apparatus*, January 2003)

From the Back Cover
Leading-edge coverage of modeling of the power system stability problem

Providing a comprehensive description of the dynamic condition of the power system, this new edition of an industry-standard text presents critical information on synchronous generators and their excitation systems, as well as extensive material on mathematical modeling of these critical components. It offers up-to-date treatment of the modeling of the power system stability problem-from the generator to the transmission system to the electrical loads.

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Analyze the dynamic performance of interconnected power systems

Examine the characteristics of the various components of a power system during normal operating conditions and during disturbances

Explore detailed mathematical models of system components and analyze system behavior using the necessary computational tools

Written for practicing engineers in the electric power industry as well as advanced students interested in power system dynamic behavior, this must-have guide will help you understand the dynamic performance of power systems.

About the Author
PAUL M. ANDERSON has over forty years of experience in power system engineering and research, power education, technical writing, and research management. His areas of interest are power system analysis, computer applications, and system dynamic performance. Currently a consultant, Dr. Anderson served as a professor of engineering at Iowa State University, Arizona State University, and Washington State University, where he was the Schweitzer Visiting Professor.

A. A. Fouad is Distinguished Professor Emeritus of Engineering at Iowa State University. He has had more than 40 years experience in power system dynamics in teaching, research, and in industry. He is a fellow of IEEE, and is the recipient of the 1993 IEEE Power Engineering Educator Award, and the 1994 IEEE Herman Halperin Transmission and Distribution Award. In 1996 he was elected to membership of the US National Academy of Engineering.

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