



# 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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## **Power System Control and Stability** By Paul M. Anderson, A. A. Fouad Bibliography

- Sales Rank: #1830819 in Books
- Published on: 2002-10-17
- Original language: English
- Number of items: 1
- Dimensions: 10.20" h x 1.50" w x 7.00" l, 2.74 pounds
- Binding: Hardcover
- 672 pages

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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.

Fully updated and expanded to include the latest developments in the field, *Power System Control and Stability, Second Edition* describes the mechanical system that drives the electric generators, and the dynamic reaction between the prime mover and generator systems. It explains how to:

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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#### **Rafael Rainey:**

Spent a free the perfect time to be fun activity to try and do! A lot of people spent their sparetime with their family, or their particular friends. Usually they accomplishing activity like watching television, likely to beach, or picnic from the park. They actually doing same thing every week. Do you feel it? Do you want to something different to fill your personal free time/ holiday? Could be reading a book could be option to fill your no cost time/ holiday. The first thing that you will ask may be what kinds of publication that you should read. If you want to try look for book, may be the guide untitled Power System Control and Stability can be very good book to read. May be it can be best activity to you.

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#### **Mary Alejandro:**

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