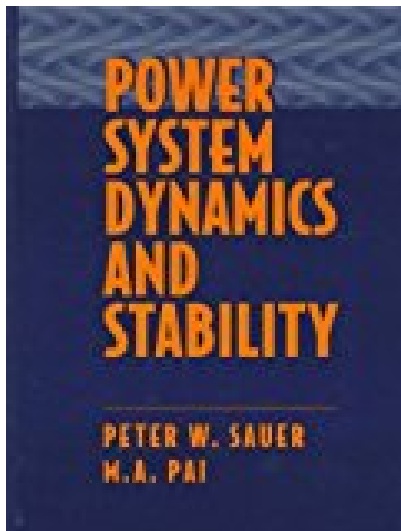


# Power System Dynamics and Stability

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## BOOK DETAILS

- Author : Peter W. Sauer
- Pages : 357 Pages
- Publisher : Prentice Hall
- Language : English
- ISBN : 0136788300

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## **BOOK SYNOPSIS**

As the demand for electrical power increases, power systems are being operated closer to their stability limits than ever before. This text focuses on explaining and analysing the dynamic performance of such systems which is important for both system operation and planning. Placing emphasis on understanding the underlying physical principles, the book opens with an exploration of basic concepts using simple mathematical models. Building on these firm foundations the authors proceed to more complex models and algorithms. Features include: \* Progressive approach from simplicity to complexity. \* Detailed description of slow and fast dynamics. \* Examination of the influence of automatic control on power system dynamics. \* Stability enhancement including the use of PSS and Facts. \* Advanced models and algorithms for power system stability analysis. Senior undergraduate, postgraduate and research students studying power systems will appreciate the authors accessible approach. Also for electric utility engineers, this valuable resource examines power system dynamics and stability from both a mathematical and engineering viewpoint.

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