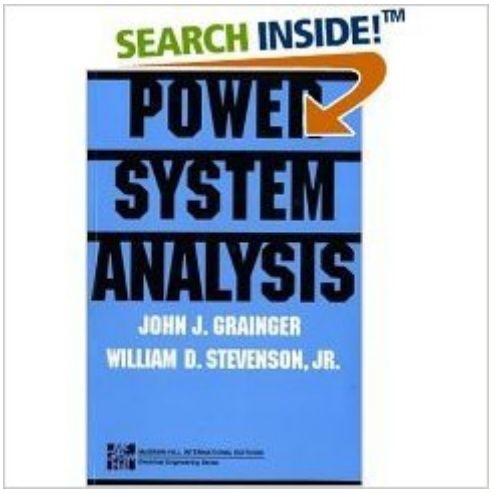
Power System Analysis



Synopsis

Based on william stevenson’s classic, elements of power system analysis, this new senior/graduate text offers a completely modern update of this popular textbook. Covering such topics as power flow, power-system stability and transmission lines, the book teaches the fundamental topics of power system analysis accompanied by logical discussions and numerous examples.

Book Information

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Customer Reviews

This is a thoroughly revised version of the classical Power System Analysis text by the late Professor Stevenson. The new author, Professor Grainger, has made every effort to retain the flavor and clarity of the original text material. The text covers all classical power system material starting with: basic concepts, transformers, transmission line parameters & performance, network models, power flow solutions, 3-phase faults, symmetrical components and applications, economic operation and power system stability. Two brand new and highly readable chapters on contingency analysis and state estimation add value to the usefulness of this text. A superb solution manual is available for instructors. This text is admirably suited to power system analysis courses at senior undergraduate level and graduate level.We, at the University of Calgary, have adopted this as the text for the 4th year power system course ENEL 587.

This book is mostly based on the classic textbook Elements of Power System Analysis by the late

William D. Stevenson, Jr. While Stevenson's book was concise and to the point stressing the fundamentals of power systems, the new book is stuck in the computational details. These unnecssary details clutter the presentation and make it for hard for the undergraduate student to know which information is important and which are secondary details. In other words, the student will not see the forest from the trees! My recommendation after using both textbooks is very loud and clear: as an undergraduate text, stick with the clear and elegant original text by W. D. Stevenson and use the bloated version by J. J. Grainger only as a reference for the interested student.

This is a classic. Anyone interested in the electrical theory behind generation, transmission, system protection, power flow analysis, and system stability analysis should buy this book. This is the standard textbook in many EE departments and will prepare you well for the PE exam.

I am in a class that requires this book, and let me just let everyone aware that this book is not a true text book. For those that are new to this field, this is one tough book to start with. I wish my school would select a different book.My problems with this book as a new student trying to learn power analysis:1- No step-by-step methods: it goes from setup of a problem to the answer.2- Unfriendly examples: you get examples that were already explained within the reading.3- No appendix that has formulas or basic information: since this is not a text book, this problem just shows that in a textbook you have them and here they are not included.4- Jumps into the supject: This is assuming that you know everything by heart before going into detailed subjects.For what this book is, I am sure it does it well - for those that are in the industry and want a supplement to help your daily needs, then this might be fine. For those that are new students in the power engineering/ electrical engineering that want a book to learn from, I advise to look for an honest text book.

Most boring, math-intensive book I have ever purchased. I have a BS in engineering, and read enjoy reading advanced technical literature. Other concepts such as diffusion tensor imaging and machine learning can easily be explained with very little math. This incredibly boring book tries to take an otherwise interesting topic (which is the industry in which I am professionally employed) and turn it into a bunch of dusty math. Seriously, no one will become excited about the electrical power industry with a book like this...

I got it to prep for the P.E. and it helped. It is dry but has the information in a mostly accessible

form.I used it for symmetric components and a few transmission line concepts. I think it might have had some synchronous generator stuff too, though I found other texts to be better for motors.

This book was highly recommended by a lot of people when taking the P.E. exam. It will teache you concepts that may have been kind of "foggy" in your regular course of study. I have highlighter marked all through my book..and YES, I did pass the P.E. exam. :-)

thought I bought the used version, came new without additional cost. This is one of the best engineering resources available. stevenson has been around for decades and it is the same quality that it has always been.

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