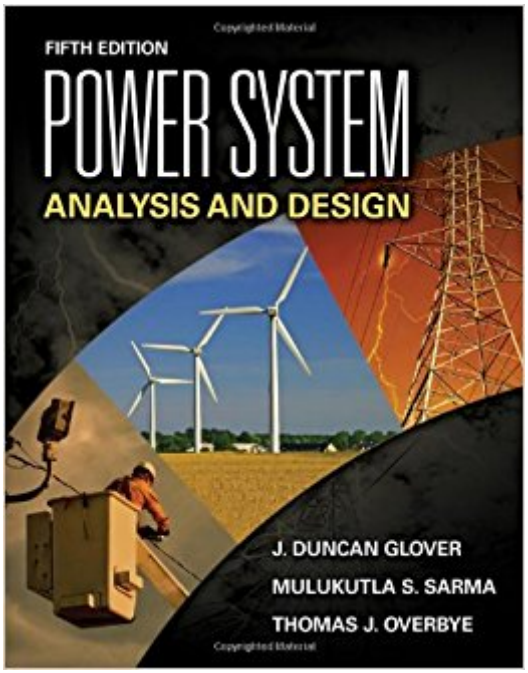
Power System Analysis And Design, Fifth Edition



Synopsis

The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field.

Book Information

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Customer Reviews

A Ph.D. from MIT, J. Duncan Glover is President and Principal Engineer at Failure Electrical, LLC. He was a Principal Engineer at Exponent Failure Analysis Associates and a tenured Associate Professor in the Electrical and Computer Engineering Department of Northeastern University. He has held several engineering positions with companies, including the International Engineering Company and the American Electric Power Service Corporation. Dr. Glover specializes in issues pertaining to electrical engineering, particularly as they relate to failure analysis of electrical systems, subsystems, and components, including causes of electrical fires.Mulukutla S. Sarma is the author of numerous technical articles published in leading journals, including the first studies of methods for computer-aided analysis of three-dimensional nonlinear electromagnetic field problems as applied to the design of electrical machinery. Dr. Sarma is a Life-Fellow of IEEE (USA), a Fellow of IEE (UK) and IEE (INDIA), a reviewer of several IEEE Transactions, a member of the IEEE

Rotating Machinery Committee, and a member of several other professional societies. He is also a Professional Engineer in the State of Massachusetts.A Ph.D. from the University of Wisconsin, Thomas J. Overbye is currently the Fox Family Professor of Electrical and Computer Engineering at University of Illinois at Urbana-Champaign. Prior to joining the University of Illinois he was employed with Madison Gas and Electric Company from 1983 to 1991. He is also the main developer of the PowerWorld Simulator computer package, and a founder of PowerWorld Corporation. He is the recipient of several teaching and research honors, including the BP Amoco Award for Innovation in Undergraduate Education, the Alexander Schwarzkopf Prize for Technological Innovation, and a University of Wisconsin-Madison College of Engineering Distinguished Achievement Award. His primary interest lies in the area of power and energy systems.

This book is terrible. It is the text book for a graduate level course in Power System Analysis that I am taking. The instructor insists there are not a lot of options out there as an excuse for the poor quality of the book.Biggest griefs:1. Inconsistency. They use different names and notation at seemingly irrelevant times. They should choose specific names and then have a short chapter on their naming style and be done with it. Learning any concept with inconsistent representation is more difficult.2. Explanations. The book relies on examples to explain concepts. Instead of completely explaining a concept and providing worked examples to cement it, they partially explain a concept and then further explain it using an example. Since the examples are all very explicit, it leaves me wondering if I really understand the concept. Concepts must be inferred from examples. They also use the exercises to try to get across additional concepts.3. Formatting. A good book would provide explicit explanations about equations and concepts, usually highlighted in some way in each section. This book provides none of that. The concepts are often buried in small cryptic paragraphs. The authors try to condense the material which results in some concepts that should have multiple pages being explained in one sentence.4. PowerWorld. It refers students to use PowerWorld to test out more complicated systems. My instructor has us using MATLAB which makes PowerWorld useless. Better would be a book that uses MATLAB but that is more of an instructor complaint. If your instructor wants to use MATLAB, then they shouldn’t use this book.5. No answers. There are no answers or worked solutions to *any* problems. This means there is no way to check your work to make sure you understand a concept. Sure, I can google around but that is besides the point.

I bought this book because its text kept coming up on searches from homework assignments, and

the nomenclature was consistent with what my professor was using in class, while his recommended textbook was not. Apparently, he had used this book before, and in that regard it proved invaluable, but I could see why he switched to another text. Every chapter has bits of many topics, but you don't get the whole thing in any one. That might have some logic if you were just reading cover to cover, but when trying to look up any topic, it means sorting through 20 or more entries with only a little bit of information in each place. At least it gave me a way to look up the variable names used in that that professor's lectures, but beyond that, this wasn't a useful reference.

Needed this book to study for PE license, kept it for reference. My job is nothing but Power Distribution so this book is like my bible...

This book is ok, there are a lot of derivation steps that are omitted which makes it difficult for non-electrical engineers. I am using this book as a required text for a power systems class in an MSME curriculm. I find it to be a little lacking in some electrical basics but it is probably fine for someone with an electrical background.

Fantastic quality and set up like a real book. I do wish you could scribble notes on the pages using your finger or apple pencil but that is a platform issue and not the book manufacturer

Excellent book! I purchase international editions for all my engineering courses. Same content as American printed hardcover.

The pages are very thin and two pages are still uncut. But, the book arrived in great condition and shipping was fast so I give it 5 stars.

Very cool book. I gave it 3 out of 5 because it's witten in black and white colors, and sometimes it hard to read charts.

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