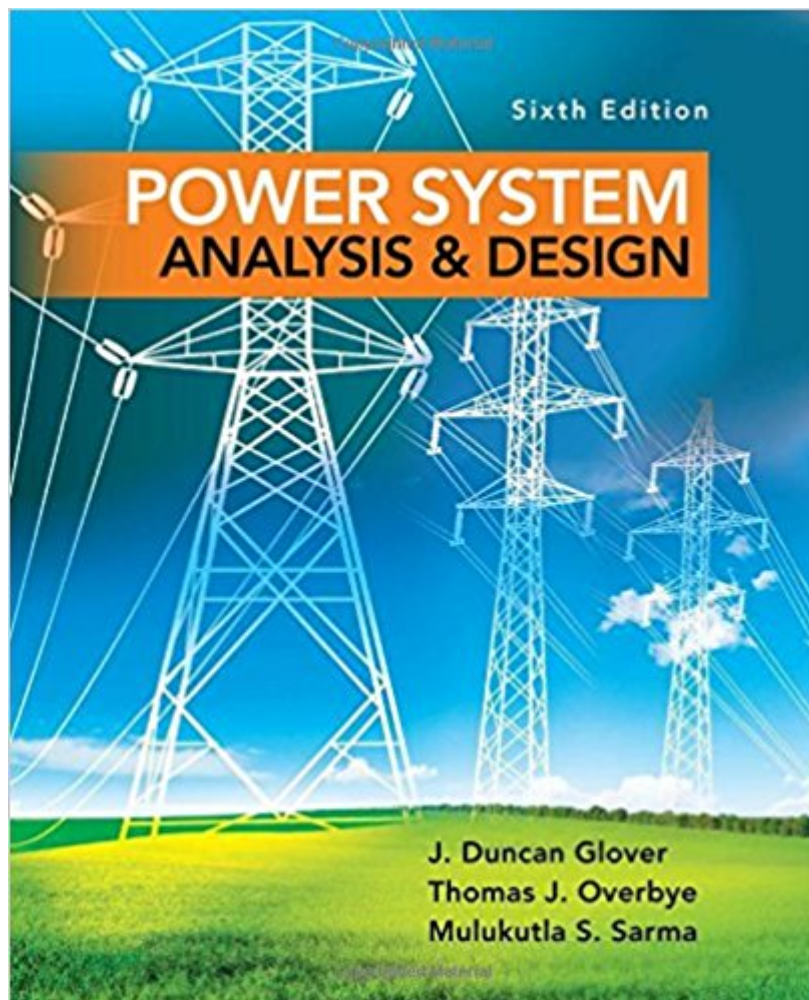




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Power System Analysis And Design (Activate Learning With These NEW Titles From Engineering!)



Synopsis

Introduce the basic concepts of power systems as well as the tools students need to apply these skills to real world situations with POWER SYSTEM ANALYSIS AND DESIGN, 6E. This new edition highlights physical concepts while also giving necessary attention to mathematical techniques. The authors develop both theory and modeling from simple beginnings so students are prepared to readily extend these principles to new and complex situations. Software tools including PowerWorld Simulation, and the latest content throughout this edition aid students with design issues while reflecting the most recent trends in the field.

Book Information

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Chapter-opening case studies highlight uses of concepts. Case studies bring principles to life as they introduce you to real-world applications for the material covered within each chapter.

Detailed design problems prepare you professionally. Five design projects within this edition meet ABET requirements, and provide hands-on experience in resolving common on-the-job challenges.

Problems offer variety of review & reinforcement. Problem sets ensure you have the practice you need to master critical skills. Objective-type questions help you further check your comprehension. Real world applications keeps content relevant. The authors present contemporary, practical applications and the most recent, emerging technologies along with

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"In my opinion, this textbook is the market leader at this level. I have received consistently good feedback from students regarding this book. The set of worked examples in this book remains to this day one of its best selling points. The introduction of the PowerWorld material in the latest editions was a good move. To me this is a mature text; it is free from factual errors and omissions. The examples are plenty and good. I like the examples which are carried throughout a given chapter. It has great worked out examples. It is well-written and appropriately concise." "The book has a good flow and a good pace. The material is very well written academically."

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. 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. 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.

This was a required text for a graduate course I took. The book is average with lots of PowerWorld examples, but is rather wordy and long-winded. I have tried using it as a desktop reference at work, but have a very hard time using it to find specific answers when I need them. Bang for the buck: If you want hands-on activities with PowerWorld, this book provides good narrative to the examples that come with the free version of the software. If you need to write your own code, Grainger & Stevenson is more compact and focused.

Great reference

One of the best books for power system analysis.

Great book. Most of the things I wanted was included with examples. Bought this after researching (almost) all the books available on . Satisfied with the decision so far.

Great

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