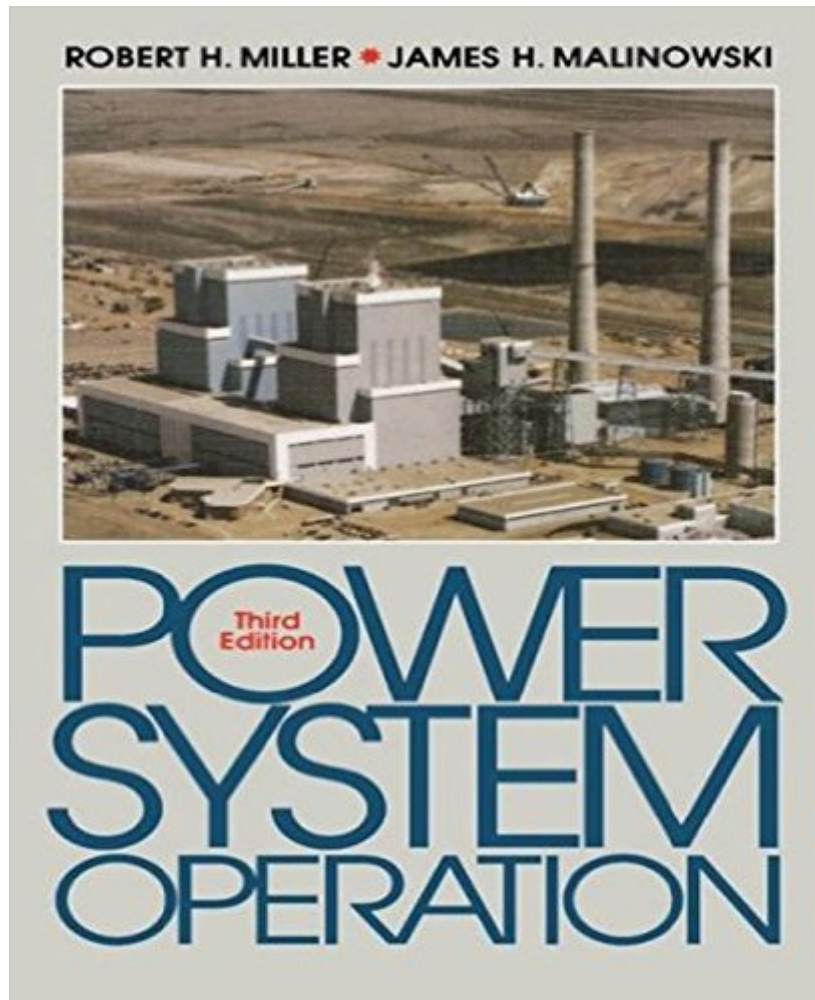


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# Power System Operation



## Synopsis

The best-selling power system operation manual ever published--NOW IN AN ALL-NEW EDITION! For over 30 years more electrical power professionals have used this guide for safe, economical system operation than any other in print. Why? Because Power System Operation, by Robert Miller and James Malinowski, presents more of the fundamental principles and methods dispatchers and operators need in a clear, easy-to-understand style. Now this third edition has been expanded by 50% to cover even more: VAR flows; Power system control; Telemetry methods; Supervisory control and data acquisition methods; System control, protection and stability; System reliability factors, Power system energy transfer; Energy accounting in interconnected operations; Operating systems most economically; EHV operation; Power system communications; Impedance of parallel circuits; Effects of resistance on impedance.

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## Customer Reviews

Part of my job with a large midwestern power company is to train load dispatchers. I'm constantly on the lookout for good material. Power System Operations by Miller is one of the best textbooks I've found to train non-degreed system operators. I used the first edition myself when I was a new load dispatcher, and I found it to be a great self-study guide. One problem with the latest (third) edition, there are no answers provided for the questions at the end of the chapter. This is no problem if the book is used in a classroom as the instructor should be able to figure them out. But for self-study it is absolutely necessary for the publisher to provide the answers to the chapter tests. Also, there are

a few typos in the chapter on reactive power that could be very misleading to students who are already struggling. The book concentrates mainly on transmission but the first four chapters are useful for distribution dispatchers as well. They provide a good foundation for teaching system overview, AC fundamentals and reactive power. The chapters on protective relaying, while still giving a basic overview of the various schemes, are a bit dated because they don't cover some of the latest microprocessor-based relays that have been replacing the electro-mechanical ones over the past several years. This is not the be-all and end-all for training system operators, but when combined with on-the-job training and other supplementary material it can help establish a solid training program.

Power System Operation provides a well structured knowledge base and reference for the new and seasoned power system operator. It will serve as the foundational and theoretical basis for many of the experienced based knowledge that is passed from operator to operator. I would recommend that all power system operators be equipped with this book as must read material.

My purpose in buying this book was to prepare for a test to become NERC certified as a power grid operator. There are several resources that I have also been studying that are available online as PDF downloads etc. I found that the book Power System Operation provided the best overall view on the whole subject matter. I do wish that there would have been answers to the questions at the end of each chapter,,, but it is also possible to go back and read more from the chapter and the answers will jump out at you with a little effort to re read the text. I still need to take the test but I feel confident that this book has helped me to pull it all together... well worth the purchase price and time to read the book.

This is a great book. If you want to learn about the power grid just for fun then this book is for you. However, this was written in the 80's (I think) and power engineering has changed quite a bit. If you are trying to get into the profession, this will give you an overview without going too deep so that you understand what you are reading when you dive into more modern, complex power engineering books. You will not learn modern power engineering from just this book. Overall A very good read. I read the import version, because the domestic version costs a lot more. My hunch is that they are nearly identical, and it's so dated anyway, that the more economical import version will serve your need.

An outstanding book for new system operators. While nothing can teach you like on-the-job training. This book does help you especially for power system employers that pre test for a job interview.

A little outdated as far as power line electronic monitoring these days but it is updated in the 1990's. Good book for understanding power transmission for people applying for power plant jobs!

I understand why this book is required for the majority of courses. This is an informative and detailed reading. This book is a great resource and reference.

Power System Operation is an important book for people that operate grids. It could be a support for electric engineering students.

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