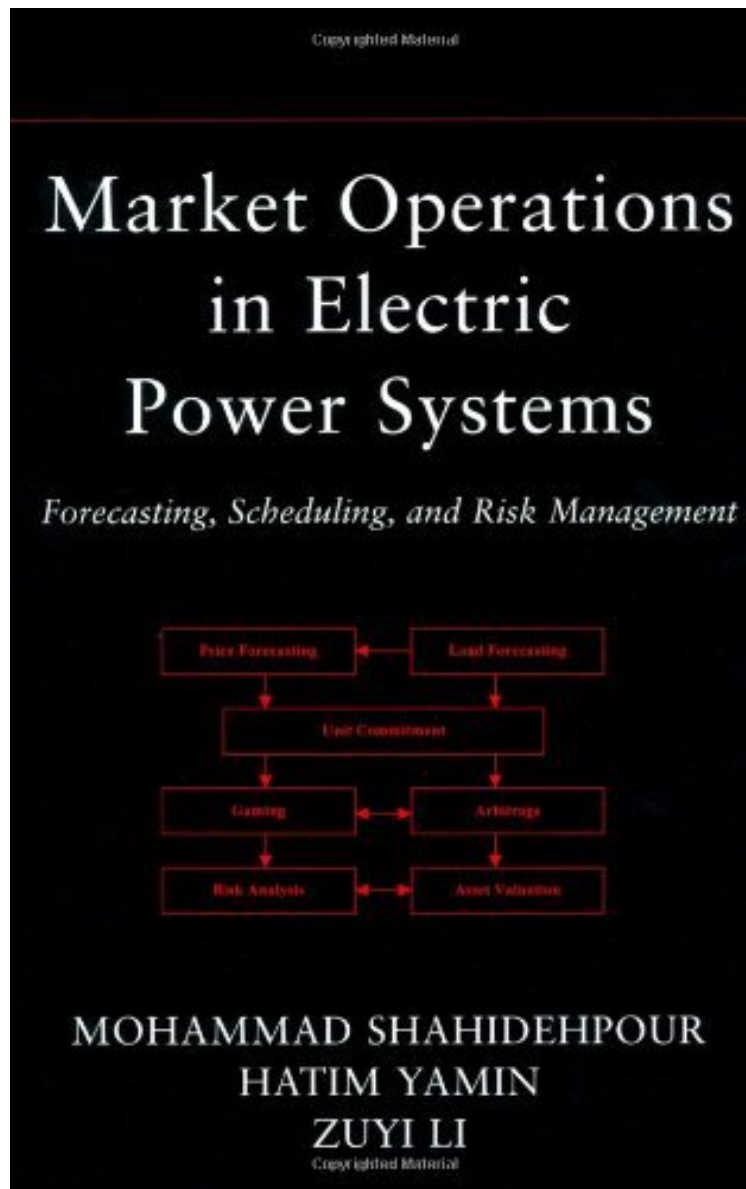


[Download pdf] Market Operations in Electric Power Systems: Forecasting, Scheduling, and Risk Management (Wiley - IEEE)

## Market Operations in Electric Power Systems: Forecasting, Scheduling, and Risk Management (Wiley - IEEE)

*Mohammad Shahidehpour, Hatim Yamin, Zuyi Li*  
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**Mohammad Shahidehpour, Hatim Yamin, Zuyi Li : Market Operations in Electric Power Systems: Forecasting, Scheduling, and Risk Management (Wiley - IEEE)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Market Operations in Electric Power Systems: Forecasting, Scheduling, and Risk Management (Wiley - IEEE):

0 of 0 people found the following review helpful. Five Stars  
By burningfist  
very good  
21 of 23 people found the following review helpful. Decided to keep it  
By A Customer  
Somewhat similar to Wood and Wollenberg. Not nearly as detailed or rigorous as the other, but more "modern", i.e., market-oriented. 200 pages on using neural nets in price forecasting (probably useful if you believe in nets). Interesting for me were sections on ancillaries, commitment/dispatch and congestion management. For those, authors provide a good introduction: mostly narrative with some formulas to show exactly what they mean.  
2 of 2 people found the following review helpful. bit too technical for me.  
By Nicholas Bundy  
Gets into concepts and theories that you need to have some sort of power industry background to understand. At the time I was looking for more intro level and this was a bit challenging.

An essential overview of post-deregulation market operations in electrical power systems  
Until recently the U.S. electricity industry was dominated by vertically integrated utilities. It is now evolving into a distributive and competitive market driven by market forces and increased competition. With electricity amounting to a \$200 billion per year market in the United States, the implications of this restructuring will naturally affect the rest of the world. Why is restructuring necessary? What are the components of restructuring? How is the new structure different from the old monopoly? How are the participants strategizing their options to maximize their revenues? What are the market risks and how are they evaluated? How are interchange transactions analyzed and approved? Starting with a background sketch of the industry, this hands-on reference provides insights into the new trends in power systems operation and control, and highlights advanced issues in the field. Written for both technical and nontechnical professionals involved in power engineering, finance, and marketing, this must-have resource discusses: \* Market structure and operation of electric power systems \* Load and price forecasting and arbitrage \* Price-based unit commitment and security constrained unit commitment \* Market power analysis and game theory applications \* Ancillary services auction market design \* Transmission pricing and congestion  
Using real-world case studies, this timely survey offers engineers, consultants, researchers, financial managers, university professors and students, and other professionals in the industry a comprehensive review of electricity restructuring and how its radical effects will shape the market.

"...an excellent work.... Readers will be impressed with the comprehensive approach and clear, readable presentation of material...highly recommended..." (Choice, Vol. 40, No. 3, November 2002)  
From the Back Cover  
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About the Author  
MOHAMMAD SHAHIDEHPOUR is Professor of Electrical and Computer Engineering at the Illinois Institute of Technology. He is a Fellow of the IEEE and has served as a consultant for major energy companies during the last twenty years.  
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ZUYI LI, PhD, is with Global Energy Market Solutions, Inc. and has been affiliated with the Electric Power and Power Electronics Center at the Illinois Institute of Technology.