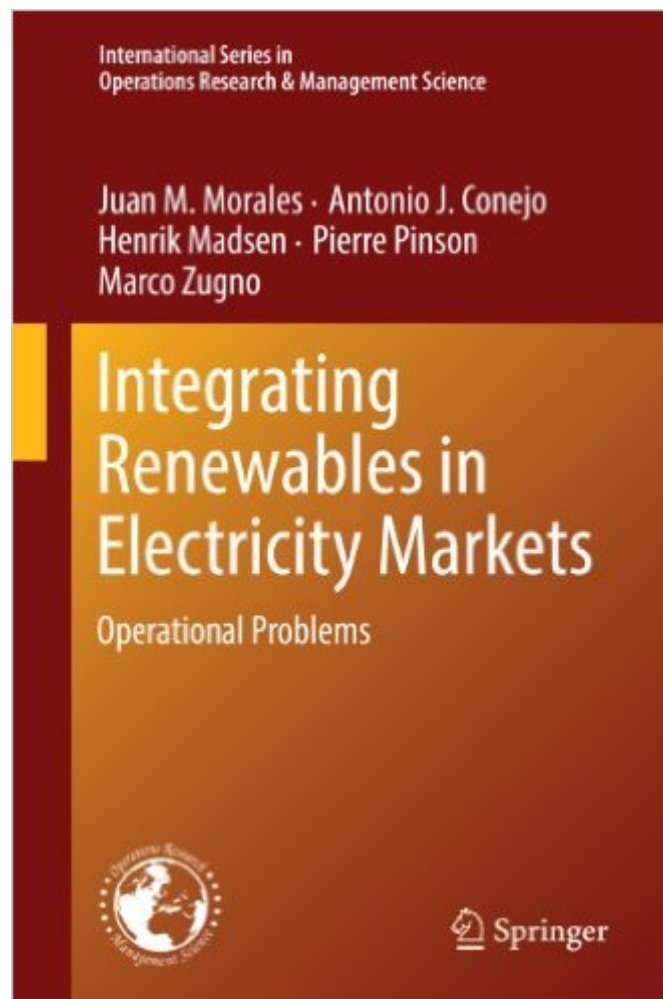


The book was found

Integrating Renewables In Electricity Markets: Operational Problems: 205 (International Series In Operations Research & Management Science)



Synopsis

This addition to the ISOR series addresses the analytics of the operations of electric energy systems with increasing penetration of stochastic renewable production facilities, such as wind- and solar-based generation units. As stochastic renewable production units become ubiquitous throughout electric energy systems, an increasing level of flexible backup provided by non-stochastic units and other system agents is needed if supply security and quality are to be maintained. Within the context above, this book provides up-to-date analytical tools to address challenging operational problems such as:

- The modeling and forecasting of stochastic renewable power production.
- The characterization of the impact of renewable production on market outcomes.
- The clearing of electricity markets with high penetration of stochastic renewable units.
- The development of mechanisms to counteract the variability and unpredictability of stochastic renewable units so that supply security is not at risk.
- The trading of the electric energy produced by stochastic renewable producers.
- The association of a number of electricity production facilities, stochastic and others, to increase their competitive edge in the electricity market.
- The development of procedures to enable demand response and to facilitate the integration of stochastic renewable units.

This book is written in a modular and tutorial manner and includes many illustrative examples to facilitate its comprehension. It is intended for advanced undergraduate and graduate students in the fields of electric energy systems, applied mathematics and economics. Practitioners in the electric energy sector will benefit as well from the concepts and techniques explained in this book.

Book Information

File Size: 7136 KB

Print Length: 429 pages

Publisher: Springer; 2014 edition (December 3, 2013)

Publication Date: December 3, 2013

Sold by: Digital Services LLC

Language: English

ASIN: B00H2C1N8W

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,097,455 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #121 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Machinery #121 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Mechanical > Machinery #163 in Kindle Store > Kindle eBooks > Business & Money > Management & Leadership > Operations Research

Customer Reviews

The book provides an excellent review of models for probabilistic forecasting. It cannot be missed as reference for teaching and research on renewables.

[Download to continue reading...](#)

Integrating Renewables in Electricity Markets: Operational Problems: 205 (International Series in Operations Research & Management Science) The Theory and Practice of Revenue Management (International Series in Operations Research & Management Science) Hydropower Economics (International Series in Operations Research & Management Science) Quantitative Health Risk Analysis Methods: Modeling the Human Health Impacts of Antibiotics Used in Food Animals (International Series in Operations Research & Management Science) Quantitative Health Risk Analysis Methods: 82 (International Series in Operations Research & Management Science) Let's Get Charged! (All About Electricity) : 5th Grade Science Series: Fifth Grade Books Electricity for Kids (Children's Physics Books) The Rucksack War: U.S. Army Operational Logistics in Grenada, 1983 (Hardcover) (Contingency Operations Series) U.S. Renewable Electricity: How Does the Production Tax Credit (PTC) Impact Wind Markets? Teach Yourself Electricity and Electronics, 5th Edition (Teach Yourself Electricity & Electronics) Conduct of Operations and Operational Discipline: For Improving Process Safety in Industry Effective Implementation In Practice: Integrating Public Policy and Management (Bryson Series in Public and Nonprofit Management) Stochastic Models, Volume 2 (Handbooks in Operations Research and Management Science) Research Handbook on International Law and Migration (Research Handbooks in International Law Series) (Elgar Original reference) US Army, Special Forces, Technical Manual, TM 9-1010-205-24, 40-MM GRENADE LAUNCHER M79, 1972 The Law of Clean Energy: Efficiency and Renewables Dental Enamel - Symposium No. 205 Renewables Are Ready--People Creating Renewable Energy Solutions: People Creating Renewable Energy Solutions Clean Energy Through Community Action (Real Goods Independent Living Book) Building a Digital Analytics Organization: Create Value by Integrating Analytical Processes, Technology, and People into Business Operations (FT Press

Analytics) Face Image Analysis by Unsupervised Learning (The Kluwer International Series in Engineering and Computer Science, Volume 612) (The Springer International Series in Engineering and Computer Science) Water Treatment WSO: Principles and Practices of Water Supply Operations Volume 1 (Water Supply Operations Series)

[Dmca](#)