

Smart Grids

Advanced Technologies and Solutions, Second Edition

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The new edition describes the impetus for change in the electric utility industry and the latest challenges, technologies, business drivers, benefits, and market outlook of the smart grid initiative. It identifies the technical framework of smart solutions and discusses the role of technology developments and coordinated standards in smart grid.

KEY FEATURES

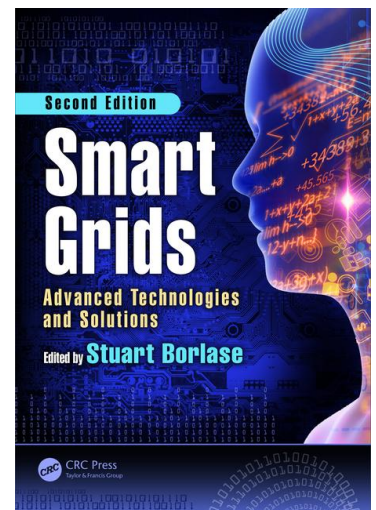
- Written and updated by over 100 leading experts worldwide from industry and academia.
- Includes new chapters on data analytics, the Internet of Things, and energy market dynamics, and how they relate to smart grids and smart cities.
- Discusses the latest technologies, business drivers, benefits and market outlook of the smart grid initiative.
- Describes the role of technology developments and coordinated standards in smart grid.

SELECTED CONTENTS

Overview of the Electric Utility Industry. Smart Grid Challenges and Transformations. Smart Energy Resources: Supply and Demand. Communications Systems. Real-Time Grid Management. Advanced Protection and Control for the Smart Grid. Automatic Restoration Systems and Outage Management. Volt/VAr Optimization. Monitoring and Diagnostics. Asset Management. Geospatial Technologies. Mobile Workforce Management. Smart Meters and Advanced Metering Infrastructure. Convergence of Technologies and IT/OT Integration. Data Analytics for the Smart Grid. High-Performance Computing for Advanced Smart Grid Applications. Cybersecurity for the Smart Grid. FACTS and HVDC. Microgrids. The Dynamics of Wholesale and Distributed Energy Markets. Transactive Energy. Smart Grid Standardization Work. The Smart Grid IoT. Smart Cities. Refining a Holistic View of Grid Modernization.

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