



# Smarter Energy: From Smart Metering to the Smart Grid (Iet Power and Energy Series)

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## Smarter Energy: From Smart Metering to the Smart Grid (Iet Power and Energy Series) From The Institution of Engineering and Technology

This book presents cutting-edge perspectives and research results in smart energy spanning multiple disciplines across four main topics: smart metering, smart grid modeling, control and optimization, and smart grid communications and networking.

Topics covered include:

- \* privacy-preserving data aggregation in smart metering systems
- \* smart price-based scheduling of flexible residential appliances
- \* smart tariffs for demand response from smart metering platforms
- \* decentralized models for real-time renewable integration in future grid
- \* distributed and decentralized control in future power systems
- \* multi-objective optimization for smart grid system design
- \* frequency regulation of smart grid via dynamic demand control and battery energy storage systems
- \* distributed frequency control and demand-side management
- \* game theory approaches for demand side management in the smart grid
- \* energy storage systems and grid integration
- \* overview of research in the ADVANTAGE project
- \* big data analysis of power grid from random matrix theory
- \* a model-driven evaluation of demand response communication protocols for smart grid
- \* energy-efficient smart grid communications
- \* cyber security of smart grid state estimation: attacks and defense mechanisms

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### **Editorial Review**

#### **About the Author**

Hongjian Sun is a Lecturer in smart grids with the University of Durham, U.K. He has made one contribution to the IEEE 1900.6a Standard and published four book chapters and more than 60 papers in refereed journals and conferences. His recent research interests include smart grids, wireless communications, and signal processing.

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Laurence Carpanini leads the development of Smart Energy Solutions for IBM in Europe. He has over 30 years' experience in the sector, providing strategic leadership, subject matter expertise and an infectious enthusiasm for smarter energy solutions driving industry transformation.

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