



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

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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

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