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Smart Grids: Clouds, Communications, Open Source, and Automation (Devices, Circuits, and Systems)

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The utilization of sensors, communications, and computer technologies to create greater efficiency in the generation, transmission, distribution, and consumption of electricity will enable better management of the electric power system. As the use of smart grid technologies grows, utilities will be able to automate meter reading and billing and consumers will be more aware of their energy usage and the associated costs. The results will require utilities and their suppliers to develop new business models, strategies, and processes.

With an emphasis on reducing costs and improving return on investment (ROI) for utilities, **Smart Grids: Clouds, Communications, Open Source, and Automation** explores the design and implementation of smart grid technologies, considering the benefits to consumers as well as businesses. Focusing on industrial applications, the text:

- Provides a state-of-the-art account of the smart grid
- Explains how smart grid technologies are currently being used
- Includes detailed examples and test cases for real-life implementation
- Discusses trade-offs associated with the utilization of smart grid technologies
- Describes smart grid simulation software and offers insight into the future of the smart grid

The electric power grid is in the early stages of a sea of change. Nobody knows which business models will survive, but companies heeding the lessons found in **Smart Grids: Clouds, Communications, Open Source, and Automation** might just increase their chances for success.

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