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Urban DC Microgrid: Intelligent Control and Power Flow Optimization

Manuela Sechilariu, Fabrice Locment

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Urban DC Microgrid: Intelligent Control and Power Flow Optimization focuses on microgrids for urban areas, particularly associated with building-integrated photovoltaic and renewable sources. This book describes the most important problems of DC microgrid application, with grid-connected and off-grid operating modes, aiming to supply DC building distribution networks.

The book considers direct current (DC) microgrid to supply DC building distribution networks for positive energy buildings; dynamic interactions with the utility grid based on communication with the smart grid; supervisory control systems; and energy management. The global power system is exposed and the DC microgrid system is presented and analyzed with results and discussion, highlighting both the advantages and limitations of the concept. Coverage at the system level of microgrid control as well as the various technical aspects of the power system components make this a book interesting to academic researchers, industrial energy researchers, electrical power and power system professionals.

- Provides a strong overview of microgrid modelling
- Describes the most important problems of DC microgrid application, with grid-connected and off-grid operating modes, aiming to supply DC building distribution networks
- Offers experimental problem examples and results
- Includes supervisory control and energy management

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