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Energy Storage for Sustainable Microgrid

By David Wenzhong Gao



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Energy Storage for Sustainable Microgrid addresses the issues related to modelling, operation and control, steady-state and dynamic analysis of microgrids with ESS. This book discusses major electricity storage technologies in depth along with their efficiency, lifetime cycles, environmental benefits and capacity, so that readers can envisage which type of storage technology is best for a particular microgrid application. This book offers solutions to numerous difficulties such as choosing the right ESS for the particular microgrid application, proper sizing of ESS for microgrid, as well as design of ESS control systems for proper interfacing with the microgrid.

- Explanations for major power electronic converters/technology required to achieve the desired interfacing
- Case studies on the major impacts of energy storage on microgrid
- Detailed solutions for choosing the right ESS for particular microgrid applications
- Valuable economics chapter to help evaluate entire systems



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Editorial Review

About the Author

Dr Gao has over 10 years of research experience in the field of Microgrid and Energy Storage Systems. Gao has published more than one hundred fifty refereed technical papers in international journals and conferences. His research has been funded by agencies and sponsors including the US National Science Foundation, US Department of Energy, National Renewable Energy Laboratory and Argonne National Laboratory. His research areas include power and energy systems including renewable energies, micro grids, distributed generation, smart grid, power delivery, power electronics application, power system protection, power system restructuring, and hybrid electric vehicles. In 2009, he won the US National Science Foundation CAREER award for wind power research.

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