

Recommended textbooks for smart microgrids

What is a microgrid control book?

This book provides a comprehensive overview of the latest developments in the control, operation, and protection of microgrids, and is a valuable resource for researchers and engineers working in control concepts, smart grid, AC, DC, and AC/DC microgrids.

Why should you read a microgrid book?

The book will be a valuable resource for researchers who are focused on control concepts, AC, DC, and AC/DC microgrids, as well as those working in the related areas of energy engineering, operations research and its applications to energy systems. Addresses various aspects from day-ahead scheduling to real-time testing of microgrids.

What is included in microgrid & smart grid design?

Throughout the book, detailed examples of microgrid and smart grid design and development strategies are provided, based on different constraints and requirements. Case studies, numerical models, and design examples are also included. Whether for the veteran engineer or student, this is a must-have volume for any library.

What is the Smart Micro Grid Controller project?

The Smart Micro Grid Controller project develops intelligent equipment for microgrids, featuring integrated control and safe operation functions. This project aims to support energy developers and producers in using their investments more efficiently.

Who is the author of microgrids?

He is the Editor-in-Chief of the IEEE Transactions on Power Systems, a member of the Editorial Board of IEEE Transactions on Sustainable Development and the IEEE Power and Energy magazine, and author of the book Microgrids: Architectures and Control. He has co-authored more than 250 journal publications and 600 conference proceedings papers.

What types of studies are conducted on microgrids?

The studies on microgrids are classified into two main topics: feasibility and economic studies, and control and optimization. The applications and types of microgrids are introduced first, and next, the objective of microgrid control is explained. Microgrid control falls under the categories of coordinated control and local control.

This book presents the state of the art of smart grids and discusses microgrids design, as well as the basics behind renewable power generation. It combines the perspectives of researchers from Europe and South America. The complexity ...

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This textbook provides a comprehensive overview of smart grids, their role in the development of new electricity systems, as well as issues and problems related ... smart grid design tools, ...

This book offers a wide-ranging overview of advancements, techniques, and challenges related to the design, control, and operation of microgrids and their role in smart grid infrastructure. It brings together an authoritative group of ...

This paper analyses a multi-layer failure mechanism of smart microgrids in energy IoT with the synergy of the "physical layer, perception layer, communication layer, and application layer", ...

This book provides a comprehensive overview of the latest developments in the control, operation, and protection of microgrids, and is a valuable resource for researchers and engineers working in control concepts, smart grid, AC, DC, ...

This book paves the way for researchers working on the smart microgrids spread over the fields of electrical engineering, power systems, and smart infrastructures. Furthermore, it provides the ...

This book highlights microgrids as integrating platforms for distributed generation units, energy storages and local loads, with an emphasis on system performance via innovative approaches. It explains the smart power system concept, ...



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