Integration of Distributed Energy Resources in Power Systems

Description:
Integration of Distributed Energy Resources in Power Systems: Implementation, Operation and Control covers the operation of power transmission and distribution systems and their growing difficulty as the share of renewable energy sources in the world's energy mix grows and the proliferation trend of small scale power generation becomes a reality.

The book gives students at the graduate level, as well as researchers and power engineering professionals, an understanding of the key issues necessary for the development of such strategies. It explores the most relevant topics, with a special focus on transmission and distribution areas.

Subjects such as voltage control, AC and DC microgrids, and power electronics are explored in detail for all sources, while not neglecting the specific challenges posed by the most used variable renewable energy sources.

- Presents the most relevant aspects of the integration of distributed energy into power systems, with special focus on the challenges for transmission and distribution
- Explores the state-of-the-art in applications of the most current technology, giving readers a clear roadmap
- Deals with the technical and economic features of distributed energy resources and discusses their business models

Contents:
1. Preface
2. Distributed Energy Resources (DERs) interconnection to power distribution systems
3. Operational aspects of distribution systems with massive DER penetrations
4. Prediction of photovoltaic (PV) power generation output and operation of network with PV generation
5. Prediction of wind power and wind farm generation output and operation of network with wind power generations
6. Energy management systems for DERs
7. Protection of DERs
8. Lightning protections of renewable energy generation systems
9. DERs and power electronics
10. AC/DC Microgrids
11. Stability problems of distributed generation
12. Virtual synchronous generators and their applications in Microgrids
13. Supply and demand balancing control of small remote island power systems
14. Application of DERs in electricity market

Appendix

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