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Energy : Renewable and Green Energy

Du, P., Baldick, R., Tuohy, A. (Eds.)

Integration of Large-Scale Renewable Energy into Bulk Power Systems

From Planning to Operation

- Proposes solutions to the key challenges engineers face in integrating increased levels of renewables into existing electric grids, from the inclusion of distributed generation sources to additional load management complexity
- Covers the integration of renewable generation methods, and their particular use scenarios, including wind, solar, and hydropower
- Demonstrates advanced methods to integrate variable renewables through specific case studies based on real world examples and recent studies

This book outlines the challenges that increasing amounts of renewable and distributed energy represent when integrated into established electricity grid infrastructures, offering a range of potential solutions that will support engineers, grid operators, system planners, utilities, and policymakers alike in their efforts to realize the vision of moving toward greener, more secure energy portfolios. Covering all major renewable sources, from wind and solar, to waste energy and hydropower, the authors highlight case studies of successful integration scenarios to demonstrate pathways toward overcoming the complexities created by variable and distributed generation.

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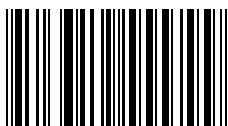
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