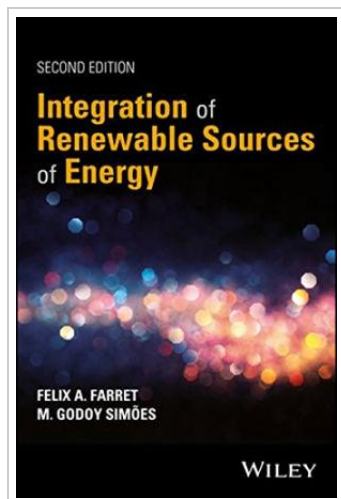




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Integration of Renewable Sources of Energy (Hardback)

By Felix A. Farret, M. Godoy Simoes

John Wiley Sons Inc, United States, 2017. Hardback. Condition: New. 2nd Edition. Language: English . Brand New Book. The latest tools and techniques for addressing the challenges of 21st century power generation, renewable sources and distribution systems Renewable energy technologies and systems are advancing by leaps and bounds, and it s only a matter of time before renewables replace fossil fuel and nuclear energy sources. Written for practicing engineers, researchers and students alike, this book discusses state-of-the art mathematical and engineering tools for the modeling, simulation and control of renewable and mixed energy systems and related power electronics. Computational methods for multi-domain modeling of integrated energy systems and the solution of power electronics engineering problems are described in detail. Chapters follow a consistent format, featuring a brief introduction to the theoretical background, a description of problems to be solved, as well as objectives to be achieved. Multiple block diagrams, electrical circuits, and mathematical analysis and/or computer code are provided throughout. And each chapter concludes with discussions of lessons learned, recommendations for further studies, and suggestions for experimental work. Key topics covered in detail include: Integration of the most usual sources of electrical power and related thermal systems Equations for energy systems...



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