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Descrizione fisica	1 online resource (XXVI, 616 p. 159 illus.)
Collana	Green Energy and Technology, , 1865-3529
Disciplina	333.79
Soggetti	Renewable energy resources Energy systems Environmental engineering Biotechnology Energy storage Renewable and Green Energy Energy Systems Environmental Engineering/Biotechnology Energy Storage
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Introduction: Basic Definitions.- Energy and Energy Types -- Mechanical Energy and Electrical Energy -- Internal Energy and Enthalpy -- Energy Balances -- Energy Production -- Energy Conversion -- Energy Storage -- Energy Conservation -- Energy Coupling.
Sommario/riassunto	Expanding on the first edition, 'Energy: Production, Conversion, Storage, Conservation, and Coupling (2nd Ed.)' provides readers with a practical understanding of the major aspects of energy. It includes extended chapters with revised data and additional practice problems as well as a new chapter examining sustainability and sustainable energy technologies. Like the first edition, it also explores topics such as energy production, conservation of energy, energy storage and energy coupling. Written for students across a range of engineering and science disciplines, it provides a comprehensive study guide. It is particularly suitable for courses in energy technology, sustainable

energy technologies and energy conversion & management, and offers an ideal reference text for students, engineers, energy researchers and industry professionals. \* Presents a clear introduction to the basic properties, forms and sources of energy \* Includes a range of supporting figures, tables and thermodynamic diagrams \* Provides course instructors with a solution manual for practice problems.

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