



# Energy: Production, Conversion, Storage, Conservation, and Coupling (Green Energy and Technology)

*Ya?ar Demirel*

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## **Energy: Production, Conversion, Storage, Conservation, and Coupling (Green Energy and Technology) Ya?ar Demirel**

Understanding the sustainable use of energy in various processes is an integral part of engineering and scientific studies, which rely on a sound knowledge of energy systems. Whilst many institutions now offer degrees in energy-related programs, a comprehensive textbook, which introduces and explains sustainable energy systems and can be used across engineering and scientific fields, has been lacking. Energy: Production, Conversion, Storage, Conservation, and Coupling provides the reader with a practical understanding of these five main topic areas of energy including 130 examples and over 600 practice problems. Each chapter contains a range of supporting figures, tables, thermodynamic diagrams and charts, while the Appendix supplies the reader with all the necessary data including the steam tables. This new textbook presents a clear introduction of basic vocabulary, properties, forms, sources, and balances of energy before advancing to the main topic areas of:

- Energy production and conversion in important physical, chemical, and biological processes,
- Conservation of energy and its impact on sustainability,
- Various forms of energy storage, and
- Energy coupling and bioenergetics in living systems.

A solution manual for the practice problems of the textbook is offered for the instructor. Energy: Production, Conversion, Storage, Conservation, and Coupling is a comprehensive source, study guide, and course supplement for both undergraduates and graduates across a range of engineering and scientific disciplines.

Resources including the solution manual for this textbook are available for instructors on sending a request to Dr. Ya?ar Demirel at [ydemirel@unl.edu](mailto:ydemirel@unl.edu)

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