



Energy: Production, Conversion, Storage, Conservation, and Coupling

By Yaşar Demirel

Springer London Ltd, United Kingdom, 2014. Paperback. Book Condition: New. 2012 ed.. 234 x 170 mm. Language: English Brand New Book ***** Print on Demand *****.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...



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