



Bioenergy: Biomass to Biofuels

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Depleting fossil fuel reserves and adverse effects of fluctuating oil prices have renewed interest in alternative and sustainable sources of energy. *Bioenergy: Biomass to Biofuels* takes on this topic and examines current and emerging feedstocks and advanced processes and technologies enabling the development of all possible alternative energy sources: solid (wood energy, grass energy, and other biomass), liquid (biodiesel, algae biofuel, ethanol), and gaseous/electric (biogas, syngas, bioelectricity). Divided into seven parts, *Bioenergy* gives thorough consideration to topics such as feedstocks, biomass production and utilization, life cycle analysis, Energy Return on Invested (EROI), integrated sustainability assessments, conversions technologies, biofuels economics and policy. In addition, contributions from leading industry professionals and academics, augmented by related service-learning case studies and quizzes, provide readers with a comprehensive resource that connect theory to real-world implementation.

- Provides a comprehensive overview and in-depth technical information of all possible bioenergy resources (solid, liquid, and gaseous), including cutting-edge topics such as advanced fuels and biogas
- Integrates current state of art coverage from feedstocks to cost-effective conversion processes to biofuels economic analysis and environmental policy
- Features case studies and quizzes for each section derived from the implementation of actual hands-on biofuel projects as part of service learning.

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