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Biotechnology for Biofuels: A Sustainable Green Energy Solution Jan 01 2023 The depletion of petroleum-derived fuel and environmental concerns have prompted many millennials to consider biofuels as alternative fuel sources. But completely replacing petroleum-derived fuels with biofuels is currently impossible in terms of production capacity and engine compatibility. Nevertheless, the marginal replacement of diesel with biofuel could delay the depletion of petroleum resources and abate the radical climate change caused by automotive pollutants. Energy security and climate change are the two major driving forces for worldwide biofuel development, and also have the potential to stimulate the agro-industry. The development of biofuels as alternative and renewable sources of energy has become critical in national efforts towards maximum self-reliance, the cornerstone of our energy security strategy. At the same time, the production of biofuels from various types of biomass such as plants, microbes, algae and fungi is now an ecologically viable and sustainable option. This book describes the biotechnological advances in biofuel production from various sources, while also providing essential information on the genetic improvement of biofuel sources at both the conventional and genomic level. These innovations and the corresponding methodologies are explained in detail.

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Chemical Energy and Exergy Jan 27 2020 This book is a beginners introduction to chemical thermodynamics for engineers. In the textbook efforts have been made to visualize as clearly as possible the main concepts of thermodynamic quantities such as enthalpy and entropy, thus making them more perceivable. Furthermore, intricate formulae in thermodynamics have been discussed as functionally unified sets of formulae to understand their meaning rather than to mathematically derive them in detail. In this textbook, the affinity of irreversible processes, defined by the second law of thermodynamics, has been treated as the main subject, rather than the equilibrium of chemical reactions. The concept of affinity is applicable in general not only to the processes of chemical reactions but also to all kinds of irreversible processes. This textbook also includes electrochemical thermodynamics in which, instead of the classical phenomenological approach, molecular science provides an advanced understanding of the reactions of charged particles such as ions and electrons at the electrodes. Recently, engineering thermodynamics has introduced a new thermodynamic potential called exergy, which essentially is related to the concept of the affinity of irreversible processes. This textbook discusses the relation between exergy and affinity and explains the exergy balance diagram and exergy vector diagram applicable to exergy analyses in chemical manufacturing processes. This textbook is written in the hope that the readers understand in a broad way the fundamental concepts of energy and exergy from chemical thermodynamics in practical applications. Finishing this book, the readers may easily step forward further into an advanced text of their specified line. - Visualizes the main concepts of thermodynamics to show the meaning of the quantities and formulae. - Focuses mainly on the affinity of irreversible processes and the related concept of exergy. - Provides an advanced understanding of electrochemical thermodynamics.

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1976 ASME-ANS International Conference on Advanced Nuclear Energy Systems Mar 30 2020

Pennsylvania Elementary Energy and Environment Science Activities Feb 28 2020

The Future of Energy Jan 09 2021 Using the principle that extracting energy from the environment always involves some type of impact on the environment, The Future of Energy discusses the sources, technologies, and tradeoffs involved in meeting the world's energy needs. A historical, scientific, and technical background set the stage for discussions on a wide range of energy sources, including conventional fossil fuels like oil, gas, and coal, as well as emerging renewable sources like solar, wind, geothermal, and biofuels. Readers will learn that there are no truly "green" energy sources—all energy usage involves some tradeoffs—and will understand these tradeoffs and other issues involved in using each energy source. Each potential energy source includes discussions of tradeoffs in economics, environmental, and policy implications Examples and cases of implementing each technology are

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Nominations Before the Senate Armed Services Committee, Second Session, 111th Congress Oct 25 2019

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Lessons from an Energy Curriculum for Senior High Grades: Energy, food production and preparation, energy use and conservation Aug 23 2019

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Compendium for Energy Resources Aug 16 2021

Fiscal year 1983 Department of Energy budget review Dec 28 2019

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