

Biosynthetic Technology and Environmental Challenges: Energy, Environment, and Sustainability

As the world grapples with the interconnected challenges of climate change, energy security, and environmental degradation, biosynthetic technology has emerged as a promising solution to mitigate these issues and create a more sustainable future.



Biosynthetic Technology and Environmental Challenges (Energy, Environment, and Sustainability)

by Rebecca C. Thompson

★★★★☆ 4.6 out of 5

Language : English
File size : 4173 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 416 pages



This comprehensive book, written by leading experts in the field, provides a comprehensive overview of the latest advancements in biosynthetic technology and its applications in addressing environmental challenges. It covers a wide range of topics, including:

- The production of renewable energy sources, such as biofuels and biohydrogen

- The development of bioremediation techniques to clean up contaminated environments
- The use of biosensors to monitor environmental pollution
- The application of synthetic biology to design new enzymes and microorganisms for environmental applications

The book is divided into three main sections:

1. **Energy:** This section covers the use of biosynthetic technology to produce renewable energy sources, such as biofuels and biohydrogen. It also discusses the challenges and opportunities associated with the development of a bio-based economy.
2. **Environment:** This section focuses on the use of biosynthetic technology to clean up contaminated environments. It describes the different types of bioremediation techniques that are available and discusses the challenges and opportunities associated with their use.
3. **Sustainability:** This section explores the use of biosynthetic technology to develop more sustainable products and processes. It discusses the challenges and opportunities associated with the development of a bio-based economy and the role that biosynthetic technology can play in creating a more sustainable future.

This book is an essential resource for anyone who is interested in the potential of biosynthetic technology to address environmental challenges. It provides a comprehensive overview of the latest advancements in the field and discusses the challenges and opportunities associated with their use.

Key Features

- Provides a comprehensive overview of the latest advancements in biosynthetic technology and its applications in addressing environmental challenges
- Covers a wide range of topics, including the production of renewable energy sources, the development of bioremediation techniques, the use of biosensors to monitor environmental pollution, and the application of synthetic biology to design new enzymes and microorganisms for environmental applications
- Written by leading experts in the field
- Includes case studies and examples to illustrate the practical applications of biosynthetic technology
- Provides a roadmap for future research and development in the field

Target Audience

This book is intended for a wide range of readers, including:

- Researchers in the field of biosynthetic technology
- Students in the field of environmental science and engineering
- Policymakers and decision-makers who are interested in the potential of biosynthetic technology to address environmental challenges
- Anyone who is interested in the potential of biosynthetic technology to create a more sustainable future

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