Green Approaches to Biocomposite Materials Science and Engineering

Part of the Advances in Chemical and Materials Engineering Book Series

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Description:

Industrial ecology, eco-efficiency, and green chemistry are guiding the development of the next generation of materials, products, and processes. Considerable growth has been seen in the use of biocomposites in the domestic sector, building materials, aerospace industry, circuit boards, and automotive applications over the past decade, but application in other sectors until now has been limited.

Green Approaches to Biocomposite Materials Science and Engineering explores timely research on the various available types of natural fibers and the use of these fibers as a sustainable alternative to synthetic fibers and polymers. Emphasizes research-based solutions for sustainability across various industries.

Readers:

This publication is an essential reference source for engineers, researchers, environmental scientists, and graduate-level students.

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Topics Covered:

- Biomaterials
- Composite Properties
- Green Composites
- Life Cycle Assessment (LCA)
- Natural Fiber Composites
- Pineapple Leaf Fibers (PALF)
- Polymer Composites

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