A robust examination of the use of nanotechnology in the manufacture of sustainable products

In Sustainable Nanotechnology: Strategies, Products, and Applications, a team of distinguished researchers delivers a comprehensive and up-to-date exploration of nanotechnology applications in environmental, pharmaceutical, and engineering products in the context of global sustainability. The book offers balanced coverage of the benefits and risks of nanotechnology.

Divided into three parts, the editors have included contributions from leading scholars discussing sustainability, toxicological impacts, and nanomaterial-based adsorbents. This edited volume helps readers understand how nanotechnology and nanomaterials apply in different global sustainability challenges. It also discusses models for understanding the lifecycle and risk assessments of manufactured nanomaterials.

Case studies are included to explore topics like design, remediation and technology assessment. The book also provides:
• Thorough introductions to nanotechnology-based research priorities for global sustainability and the challenges and opportunities of modern, sustainable nanotechnology

• Comprehensive explorations of improving the sustainability of bio-based products with nanotechnology and the improvement of the environmental sustainability of biopolymers using nanotechnology

• Practical discussions of nanotechnology-based polymers for drug delivery applications

• In-depth examinations of green nanotechnology-driven drug delivery systems

Perfect for nanotechnology-focused professionals, sustainability experts, biomedical experts, and pharmaceutical industry practitioners, Sustainable Nanotechnology: Strategies, Products, and Applications will also earn a place in the libraries of neuroscientists, bioengineering professionals, and those involved in neuroprosthetic engineering.

ARROW ABOUT THE AUTHOR

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