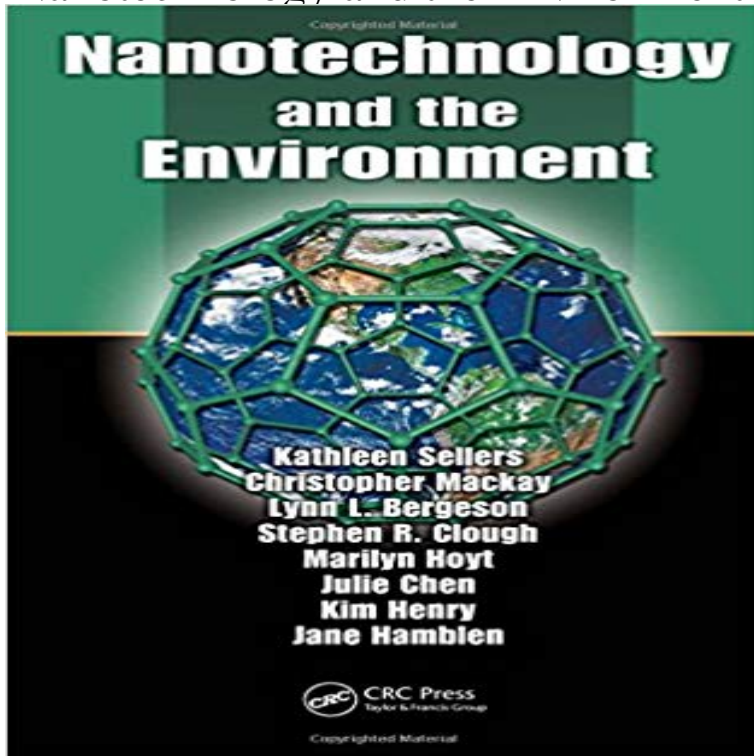


Nanotechnology and the Environment



Nanomaterials unique properties offer revolutionary means to optimize a variety of products, including electronics, textiles, paintings and coatings, pharmaceuticals, and personal care products. However, these same properties mean that nanoscale materials can behave differently in the human body and the environment than conventional materials. Nanotechnology and the Environment provides the fundamental basis needed to assess and understand the life cycle of nanomaterials. It begins with a general explanation of nanomaterials, their properties, and their uses and describes the processes used to manufacture nanoscale materials. Subsequent chapters furnish information on the analysis of nanomaterials in the environment and their fate and transport, including the effects of wastewater treatment on nanomaterials. The book discusses possible risks to human health and the environment and the environment, and describes developing regulations to manage those risks. Given the potential risks, the book explores the apparent paradox of using nanomaterials in environmental remediation. The final chapter discusses frameworks for evaluating the balance between risk and reward as nanomaterials are manufactured, used and released to the environment.

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Nanotechnology is often described as an emerging technology one that not only holds promise for society, but also is capable of revolutionizing our **Environmental Nanotechnology, Monitoring and Management**

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Nano Green nanotechnology refers to the use of nanotechnology to enhance the environmental sustainability of processes **Nanotechnology and the Environment - Videos - AZoNano**

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Nanotechnology and the Environment. Nanotechnological products, processes and applications are expected to contribute significantly to environmental and climate protection by saving raw materials, energy and water as well as by reducing greenhouse gases and hazardous wastes. **Advances in Nanotechnology and the Environment - CRC Press Book**

Nanotechnology and the Environment: Report of a - The National Nanotechnology Initiative (NNI) is committed to the responsible The NNI addresses EHS issues through the Nanotechnology Environmental and **Nanotechnology Research to Improve the Environment**

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CEINT is exploring the relationship between a vast array of nanomaterials from natural, to manufactured, to those produced incidentally by human activities