

Nanodevices and nanomaterials for ecological security

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Abstrak

This book is devoted to a wide range of problems concerning applications of nanomaterials and nanodevices as effective solutions to modern ecological problems. Leading experts in nanoscience and nanotechnology present the key theoretical, experimental and implementation issues related to the creation and utilization of novel nanoscale devices to help ensure ecological security. The authors discuss appropriate nanotechnologies for minimizing various types of risk: to human life, technogenic risk, or indeed terrorist threats. Particular emphasis is placed on defining and studying the required materials properties, and in the field on nanoscale devices for sensors and monitoring.