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| Nota di contenuto | Nanotechnology Intervention for Sustainable Agriculture: Challenges and Possibilities -- Dynamic Applied Interactions amid Nanoparticles, Beneficial Soil Microorganisms, and Phytopathogens -- Influence of Nanoparticles in Orchestrating Plant Growth and Development -- Nano-biofertilizers and Nano-biopesticides: Impact of Future Agrochemicals -- Advancements in ZnO Nanomaterials for Enhancing Agricultural Systems -- Bionanoaugmentation: A novel approach for environment protection -- Nanomaterial-based photochemical degradation of environmental pollutants -- Nanotoxicology: A Threat to The Environment and Human Health -- Nanoparticles-mediated |

diagnosis of common human diseases: With special reference to gold nanoparticles -- Nanoparticles as drug delivery systems: Advances and challenges -- Recent advancements in nanobiology in the treatment of human diseases -- Futuristic role of green nanotechnology for sustainable agriculture, environment, and public health.

Sommario/riassunto

This book presents an update on the state of the art in nanobiology and various nanoparticle synthesis and characterization methods. Further, the application of nanomaterials in agriculture (nanobiofertilizers and nanobiopesticides), environmental remediation (bio-nanoaugmentation), and public health (diagnosis, treatment, and drug delivery) is also a key area of this book. This book serves as a roadmap for researchers to fill various gaps by designing and organizing future research. It offers a crucial reference for academic researchers in nanotechnology, medicine, material science, toxicology, agriculture, environmental science, and biomedical science.
