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Advanced Science and Technology for Biological Decontamination of Sites Affected by Chemical and Radiological Nuclear Agents

This book presents a comprehensive and integrated approach toward solving the ever growing problem of soil and water contamination by radioactive and chemical wastes from military facilities, weapons industries, and weapons storage. Plant and microbial biotechnology have been proven viable low-cost approaches to monitor, tackle, and solve broad pollution issues. Field trials, macrocosms, microcosms, and laboratory scale experiments are described to explain how to deal with wastes, different in chemical type, concentration, area of concern, and substrates they affect. Description of actual examples of phytoremediation fields, bioremediation plants, and constructed wetlands provide a framework for the application of these techniques to new applications and emphasize the factors that are significant to developing effective treatments.

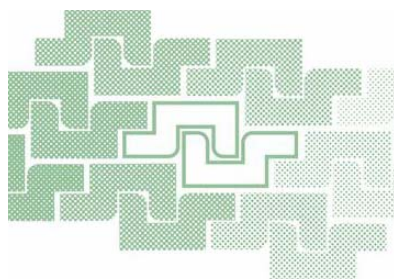
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Edited by

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and Marta Marmioli

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