



Phytoremediation: Transformation and Control of Contaminants

By McCutcheon, Steven C.; Schnoor, Jerald L.

Wiley-Interscience, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service!
Summary: Series Preface.Preface.Contributors.Editorial Review Board.SECTION I: OVERVIEW OF SCIENCE AND APPLICATIONS.1. Overview of Phytotransformation and Control of Wastes (S.C. McCutcheon and J.L. Schnoor).2. Uptake and Metabolism of Organic Compounds: Green-Liver Model (J.G. Burken).3. Making Phytoremediation a Successful Technology (N. Marmiroli and S.C. McCutcheon).SECTION II: FUNDAMENTALS OF PHYTOTRANSFORMATION AND CONTROL OF CONTAMINANTS.4. Some Fundamental Advances for Xenobiotic Chemical (J.-P. Schwitzgu'bel and T. Vanek).5. Enzymes Used by Plants and Microorganisms to Detoxify Organic Compounds (N.L. Wolfe and C.F. Hoehamer).6. Plant Tolerances to Contaminants (V.F. Medina,et al.).7. Root Development and Rooting at Depths (M.C. Negri,et al.).8. Measuring and Modeling Tree and Stand Level Transpiration (J.M. Vose,et al.).SECTION III: SCIENCE AND PRACTICE FOR AROMATIC, PHENOLIC, AND HYDROCARBON CONTAMINANTS.9. Transforming of Organic Contaminants by Different Plant Systems (H. Harms, et al.).10. Ecology of Rhizosphere Bioremediation (P.E. Olson,et al.).11. Biodegradation of Petroleum Hydrocarbons in the Rhizosphere (S.L. Hutchinson,et al).SECTION IV: TRTRANSFORMATION AND CONTROL OF EXPLOSIVES.12. Role of Plants in the Transformation of Explosives (M. Subramanian and J.V. Shanks).13. Transformation Kinetics of Trinitrotoluene Conversion in Aquatic Plants (M.F. Jacobson,et al.).14. Proof of

Reviews

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