

# **Bioremediation of Recalcitrant Compounds**



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## **Bioremediation of Recalcitrant Compounds**

#### **Bioremediation of Recalcitrant Compounds**

This authoritative text addresses the latest in bioremediation technologies for three difficult-to-treat contaminant groups: chlorinated solvents, PCBs, and PAHs - one of the most complex and expensive areas of applied remediation engineering.

Bioremediation of Recalcitrant Compounds assesses innovative R&D projects developed for each contaminant group by a specially funded consortium of experts. Considering factors such as availability, toxicity, and treatability, world-class experts chronicle the development of field-ready biotechnologies, reflecting on the science and engineering challenges encountered as the research team progressed from bench-scale testing to the field. This book features the experimental work involved in enzymatic reactions for the biodegradation of co-solvent extraction of chlorinated solvents, bioaugmentation enhanced PAH degradation, and genetically engineered microorganisms (GEMs) for enhanced PCB degradation. Comparisons to traditional methods of remediation also provide new insight on how to optimize biotreatment.

Concluding with future directions of research and development in this area, Bioremediation of Recalcitrant Compounds is a must-have for professionals seeking cutting-edge, innovative biotreatment technologies for these hazardous organic compounds.

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