

Contents

List of contributors	ix
Preface	xi
Introduction	1
R. L. Crawford	
1 Engineering of bioremediation processes: needs and limitations	13
W. Admassu and R. A. Korus	
2 Bioremediation in soil: influence of soil properties on organic contaminants and bacteria	35
M. J. Morra	
3 Biodegradation of 'BTEX' hydrocarbons under anaerobic conditions	61
L. R. Krumholz, M. E. Caldwell and J. M. Sufita	
4 Bioremediation of petroleum contamination	100
E. Rosenberg and E. Z. Ron	
5 Bioremediation of environments contaminated by polycyclic aromatic hydrocarbons	125
J. G. Mueller, C. E. Cerniglia and P. H. Pritchard	
6 Bioremediation of nitroaromatic compounds	195
S. B. Funk, D. L. Crawford and R. L. Crawford	
7 A history of PCB biodegradation	209
R. Unterman	

[Contents](#)

8 Bioremediation of chlorinated phenols	254
J. A. Puhakka and E. S. Melin	
9 Biodegradation of chlorinated aliphatic compounds	300
L. P. Wackett	
10 Microbial remediation of metals	312
T. M. Roane, I. L. Pepper and R. M. Miller	
11 Molecular techniques in bioremediation	341
M. S. Shields and S. C. Francesconi	
Index	391