

PREFACE.....	ix
CHAPTER 1 Environmental biotechnology: an overview.....	1
CHAPTER 2 A question of balance: using <i>versus</i> abusing biological systems	45
CHAPTER 3 Environmental biochemodynamic processes.....	99
CHAPTER 4 Systems.....	167
CHAPTER 5 Environmental risks of biotechnologies	229
CHAPTER 6 Reducing biotechnological risks.....	275
CHAPTER 7 Applied microbial ecology: bioremediation.....	325
CHAPTER 8 Biotechnological implications: a systems approach.....	401
CHAPTER 9 Environmental risks of biotechnologies: economic sector perspectives	443
CHAPTER 10 Addressing biotechnological pollutants.....	491
CHAPTER 11 Analyzing the environmental implications of biotechnologies	539
CHAPTER 12 Responsible management of biotechnologies.....	577
APPENDIX 1 Background information on environmental impact statements.....	635
APPENDIX 2 Cancer slope factors.....	641
APPENDIX 3 Verification method for rapid polymerase chain reaction systems to detect biological agents.....	649
APPENDIX 4 Summary of persistent and toxic organic compounds in North America, identified by the United Nations as highest priorities for regional actions.....	651
APPENDIX 5 Sample retrieval from ECOTOX database for Rainbow Trout (<i>Oncorhynchus mykiss</i>) exposed to DDT and its metabolites in freshwater	663
GLOSSARY	679
INDEX	737
COLOR PLATE	