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| Nota di contenuto       | Front Cover; Biotechnology for Waste and Wastewater Treatment; Copyright Page; Preface; About the Author; CONTENTS; CHAPTER 1. BIOTECHNOLOGY FOR INDUSTRIAL AND MUNICIPAL WASTES; MUNICIPAL TREATMENT PLANT SLUDGES; CHAPTER 2. BIOLOGICAL DEGRADATION OF HAZARDOUS WASTES; INTRODUCTION; ABIOTIC TREATMENT TECHNIQUES; BIOLOGICAL CONTROL METHODS; DETERMINATION OF BIOLOGICAL DEGRADABILITY; PILOT STUDIES; LABORATORY STUDIES OF AEROBIC DEGRADATION; ANAEROBIC BACTERIA; FUNGI; CONCLUSIONS; REFERENCES; CHAPTER 3. BIOLOGICAL TREATMENT OF INDUSTRIAL WASTES: MUTANT BACTERIA; BIOLOGICAL TREATMENT - OVERVIEW MICROBIOLOGY BACKGROUND BACTERIAL GROWTH; KINETICS OF GROWTH; INDUSTRIAL WASTE TREATMENT PROCESSES; MUTANT BACTERIA; REFERENCES; CHAPTER 4. NITRIFICATION AND DENITRIFICATION IN THE ACTIVATED SLUDGE PROCESS; INTRODUCTION; FORMS OF NITROGEN; NITRIFYING BACTERIA; |

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CHAPTER 5. IN-SITU BIORECLAMATION OF CONTAMINATED GROUNDWATERINTRODUCTION; TREATING CONTAMINATED GROUNDWATER; APPLICATION OF MODELING; CONCLUSIONS; REFERENCES; Index

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Sommario/riassunto

This book examines the practices used or considered for biological treatment of water/waste-water and hazardous wastes. The technologies described involve conventional treatment processes, their variations, as well as future technologies found in current research. The book is intended for those seeking an overview to the biotechnological aspects of pollution engineering, and covers the major topics in this field. The book is divided into five major sections and references are provided for those who wish to dig deeper.

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