

1. Record Nr.	UNINA9910457329603321
Autore	Doble Mukesh
Titolo	Biotreatment of industrial effluents [[electronic resource] /] / Mukesh Doble and Anil Kumar
Pubbl/distr/stampa	Amsterdam, : Elsevier Butterworth-Heinemann, c2005
ISBN	1-280-62942-8 9786610629428 0-08-045621-9
Descrizione fisica	1 online resource (337 p.)
Altri autori (Persone)	Anil Kumar
Disciplina	628.5
Soggetti	Factory and trade waste - Purification Waste products - Environmental aspects Bioremediation Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Front matter; Half Title Page; Title Page; Copyright; Dedication Page; Contents; Foreword; Preface; 1. Introduction; Movement of Pollutants from the Source; Different Treatment Procedures and Factors Affecting Technology Selection; Various Chapters in the Book and How They Are Interrelated; Major Findings; New Research Frontiers; References; 2. Environmental Disasters; Various Disasters; Superfund; Conclusions; References; Bibliography; 3. Aerobic and Anaerobic Bioreactors; Introduction; Aerobic Degradation; Anaerobic Degradation Comparison between Aerobic and Anaerobic Degradation Pathways Aerobic Reactors; Anaerobic Reactors; Conclusions; References; 4. Mathematical Models; Basic Reactor Models; Reaction Kinetics; Oxygen Transfer Rates; Mass Transfer and Diffusion Coefficients; Activated Sludge Process; Ponds and Lagoons; Transport in Soils; Diffusion and Transport of Gases in Air; Nomenclature; References; 5. Treatment of Waste from Organic Chemical Industries; Introduction; Biotreatment; Phytoremediation; References; 6. Chlorinated Hydrocarbons and Aromatics, and Dioxins; Introduction; Occurrence Aerobic Degradation Anaerobic Degradation Pathways; Polynuclear

Aromatic Hydrocarbons; Dioxins; References; Bibliography; 7. Fluoride Removal; Introduction; Organofluorine Compounds; Fluoride Contamination of Water and Treatment; References; 8. Biodegradation of Pesticides; Introduction; Insecticides; Fungicides; Herbicides; References; Bibliography; 9. Degradation of Polymers; Introduction; Biodegradation; Conclusions; References; Bibliography; 10. Degradation of Dyes; Textile Dyes; Reactors; White Rot Fungi; Conclusions; References; Bibliography; 11. Textile Effluent; Physical Treatment Biodegradation Biosorption; Combined Treatments; Reactors; Conclusions; References; Bibliography; 12. Tannery Effluent; Biochemical Treatment; Chromium; Conclusions; References; Bibliography; 13. Treatment of Waste from Metal Processing and Electrochemical Industries; Mechanisms of Metal-Microorganism Interaction; Biosorption and Bioaccumulation; Bioprocesses and Reactors; Toxic Metals; Acid Mine Water; Plants; Conclusions; References; Bibliography; 14. Semiconductor Waste Treatment; Waste; Physical and Chemical Treatment Methods; Biochemical Methods; Biosorption; Conclusions; References  
15. Waste from Nuclear Plants Introduction; Waste Management; Bioremediation; Phytoremediation; Composting; References; Bibliography; 16. Cyanide Waste; Physical Processes; Bioprocess; Metal-Cyanide Effluent; Conclusions; References; Bibliography; 17. Treatment of Waste from Food and Dairy Industries; Introduction; Dairy Industry; Meat Processing Industry; General Treatment Methods; References; Bibliography; 18. Sugar and Distillery Waste; Alcohol Distillery Effluent; Treatment of Distillery Effluent; Indian Scene; International Status; Microorganisms; References; Bibliography  
19. Paper and Pulp

---

### Sommario/riassunto

With increasing government regulation of pollution, as well as willingness to levy punitive fines for transgressions, treatment of industrial waste is an important subject. This book is a single source of information on treatment procedures using biochemical means for all types of solid, liquid and gaseous contaminants generated by various chemical and allied industries. This book is intended for practicing environmental engineers and technologists from any industry as well as researchers and professors. The topics covered include the treatment of gaseous, liquid and solid waste

---