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Nota di contenuto	Intro -- Sewage Treatment: Uses, Processes and Impact -- Contents -- Preface -- The Fate and Transport of Trace Metals Through Sewage Treatment Plant Processes -- Abstract -- 1. Introduction -- 2. Variety of Waters Entering STP -- 3. Treatment of Waters -- 4. Global Vision of the Treatments and Effluent Discharge -- 5. Sludge Treatment and Disposal -- 6. Effects on the Receiving Ambients -- 7. Future and Perspectives -- References -- Effects of Stabilization Processes on Sewage Sludge's N and P Fertilizing Value -- Abstract -- 1. Introduction -- 2. Sewage Sludge Stabilization -- 3. Sewage Sludge Composting -- 4. Alkaline Treatment -- 5. Thermal-Drying of Sewage Sludge -- 6. Solar-Irradiation of Sewage Sludge -- Conclusions -- References -- Fate of Cadmium, Copper, Lead and Zinc in Soils After Application of Different Treated Sewage Sludge in Soils of the Pampas Region, Argentina -- Abstract -- Introduction -- Studies on Pampas Soils -- General Conclusions -- References -- Treatment of Sewage for Use in Agriculture -- Abstract -- 1. Introduction -- 2. Characteristics of Municipal Sewage -- 3. Municipal Sewage Treatment -- 4. Experiment of Treatment and Application of the Effluent -- 5. Application of Treated Sewage in Fertirrigation -- Conclusion -- References -- Isolation of Pollutant-Degrading Microbes from a Sewage Treatment Plan -- Abstract -- Introduction -- Strategy for Isolation of EDC-Degrading Microbes -- Nonylphenol-Degrading Microbe -- Estradiol-

Degrading Microbe -- Benzophenone-Degrading Microbe -- Construction of a Wastewater Treatment System Using EDC-Degrading Microbe -- Conclusion -- References -- Thermal Conversion of Sewage Sludge by Pyrolysis -- Abstract -- Introduction -- 2. Experimental Details -- 3. Results and Discussion -- Conclusions -- References. Sewage Sludge Disposal - Land Application - Environmental Problems - An Overview -- 1. Introduction -- 2. What Is Sludge? -- 3. Composition of Sewage Sludge -- 4. Processing of Sludge -- 5. Agricultural Application -- 6. Problem of Sludge -- 7. The Trouble with Sludge -- 8. Source of Toxic Chemicals -- 9. Sludge Regulation -- 10. Sludge Consequences -- 11. Sludge Regulation -- 12. The Sludge Solution -- 13. Disposal of Sludges -- 14. Conclusion and Recommendation -- References -- Wastewater Sewage Sludge Disposal by Pyrolysis and Vitrification -- Abstract -- Introduction -- Instrumental Techniques in the Characterization of the Pyrolysis Process of Wastewater Sewage Sludge -- Sewage Sludge Pyrolysis Tests on a Home Assembled TG-MS/TG-GC-MS Instrumental Plant/Apparatus -- Experimental Gasification Pilot Plant -- Pyrolysis Results -- Vitrification of the Pyrolysis Solid Residue -- A Pyrolysis-Vitrification Process for the Disposal of Wastewater Sewage Sludge -- A Thermodynamic Equilibrium Model for the Sludge Pyrolysis Process -- Conclusion -- References -- Behavior of Pharmaceutical and Their Degradation Products During Wastewater Treatment -- Abstract -- 1. Introduction -- 2. Transformations and Fate of Pharmaceuticals and Their Degradation Products in Wastewater -- 3. Analytical Techniques for The Determination of Pharmaceuticals and Their Degradation Products in Wastewater -- 4. Conclusions and Outlook -- References -- Intensive Aerobic Bioconversion of Sewage Sludge and Food Waste into Organic Fertiliser -- Abstract -- Introduction -- Results -- Conclusion -- References -- Environmental Impact of Sewage Water Pollution -- Introduction -- Wastewater Characteristics -- Quality Parameters of Importance -- Potential Impacts of Wastewater in Environment -- Waste Water Treatment Procedure Adopted in India -- Water Quality Guidelines -- Conclusion. References -- Disposal of Municipal Sewage Sludge in China - A Mini Review -- Abstract -- 1. Introduction -- 2. Origin and Production of Municipal Sewage Sludge -- 3. Principles of Municipal Sewage Sludge Disposal -- 4. Disposal Technologies -- Conclusions -- Acknowledgments -- References -- Removal of Colour and Trace Organic Matters from Recycled Wastewater -- Abstract -- Introduction -- Experimental and Methods -- Results and Discussion -- Conclusion -- Acknowledgments -- References -- Photodegradation of Octylphenol Using Simulated and Natural Sunlight Radiation -- Abstract -- Introduction -- 2. Experimental Section -- 3. Results and Discussions -- Conclusion -- References -- Washing of Incineration Residue of Sewage Sludge with Acid and Coagulation-Sedimentation Treatment Using the Washings -- Abstract -- 1. Introduction -- 2. Material and Methods -- 3. Results and Discussion -- References -- Index.

Sommario/riassunto

This book provides current studies and research on the treatment and use of sewage and sewage sludge. Using this material as a fertiliser can benefit the environment by turning wastes into valuable resources. Both the environmental advantages and disadvantages of this process are addressed by the authors.