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Nota di contenuto	Intro -- ANAEROBIC DIGESTION: PROCESSES, PRODUCTS AND APPLICATIONS -- ANAEROBIC DIGESTION: PROCESSES, PRODUCTS AND APPLICATIONS -- Library of Congress Cataloging-in-Publication Data -- Contents -- Preface -- Chapter I: Anaerobic Treatment of Domestic Wastewater -- Abstract -- Abbreviations -- 1. Introduction -- 2. Domestic Wastewater -- 3. Anaerobic Digestion -- 3.1. Anaerobic Biomass -- 4. Evolution of Anaerobic Treatment: High Rate Anaerobic Reactors -- 4.1. Upflow Anaerobic Sludge Bed (UASB) Reactor -- 4.2. Anaerobic Baffled Reactor (ABR) -- 4.3. Expanded Granular Sludge Bed (EGSB) Reactor -- 5. Application of Anaerobic Reactors for Municipal Wastewater Treatment -- 5.1. Single-Stage Systems -- 5.2. Two-Stage Systems -- 6. Anaerobic System Applications at Psychrophilic Temperatures: Case Studies -- 6.1. Anaerobic Digestion Process and Operation: Hydrolytic and Methanogenic Reactors -- 6.2. Description of Surveyed Anaerobic Systems -- 6.3. Operation and Efficiency of Anaerobic Systems -- 6.4. Effluent TSS Concentration of the Surveyed Anaerobic Systems -- Conclusion -- References -- Chapter II: Effect of Anaerobic Pretreatment by Dry Batch Technology on Aerobic Degradability of Sewage Sludge -- Abstract -- Introduction -- 1. Materials and Methods -- 2.1. Materials -- 2.2. Methods of Substance-Examination -- 2.3. Measuring Method of the Batch Dry Anaerobic Experiment -- 2.3. Measuring Method of Anaerobe - Aerobe Combined Treatment -- 2.5. Measuring Methods -- 2. Results and Their

Evaluation -- 3.1. Evaluation of the Anaerobic Dry Batch Treatability of the Wastewater Sludge -- 3.2. Evaluation of the Impact of the Dry Batch Anaerobic Pre-Treatment on the Composting Process -- 3.3. Comparison of Anaerobic and Aerobic Degradation and Their Combined Evaluation -- Conclusion -- References.

Chapter III: Real Time Identification for the Hydrogen Anaerobic Production Process Based on Multiple Differential Neural Networks and Takagi-Sugeno Fuzzy Decision Method -- Abstract -- 1. Introduction -- 1.1. Anaerobic Digestion Process -- 1.2. Takagi-Sugeno Fuzzy Systems -- 1.3. Differential Neural Networks -- 2. Continuous Neural-Fuzzy Identifier -- 2.1. On the DNN Approximation of Uncertain Systems -- 2.2. The Identifier Structure -- 2.3. The Learning Laws of the Identifier -- 2.4. The Identification Result -- 2.5. On the Positiveness of the Riccati Equation's Solution -- 3. Identification Results: Numerical Simulation -- 3.1. Anaerobic Digester Model -- 3.2. Takagi-Sugeno Fuzzy Inference Design -- 3.3. Identification Results -- 4. Real Time Implementation -- 5. Conclusion -- Appendix -- References -- Chapter IV: A Scientific Review of the Agronomic, Environmental and Social Benefits of Anaerobic Digestion -- Abstract -- Introduction -- What Is AD? -- Environmental Benefits -- Production of Renewable Energy -- Reduction of Fugitive GHG from Manure Storage -- Impact of AD on Nitrous Oxide Emissions from Land-Applied Manures -- Impact of AD on Ammonia Emission from Land-Applied Manures -- Potential Impact of AD on Water Protection -- Agronomic Benefits -- Societal Benefits -- Economical Aspects -- Conclusion -- References -- Chapter V: Anaerobic Digestion: Processes, Products and Applications -- Abstract -- 1. Introduction -- 2. Anaerobic Digesters -- 3. Applications of Anaerobic Digestion -- 4. Products of Anaerobic Digestion -- 4.1. Solid Digestate -- 4.2. Liquid Digestate -- 4.3. Biogas -- 4.4. Biorefinery -- References -- Chapter VI: Microbial Aspects of Anaerobic Digestion for Biogas Production -- Abstract -- 2. Outline of Biogas Production -- 3. Occurrence of Facultative and Obligate Anaerobes -- 3.1. Habitats. 3.2. Factors Conditioning the Habitats -- 3.3. Classification of Methanogens -- 3.4. Metabolic Pathways for Methane Production -- 3.5. Efficiency of Anaerobic Digestion and Its Products -- 3.6. Deterioration of Methanogenesis -- 3.7. Eco-Friendly Applications -- Conclusion -- References -- Index.

Sommario/riassunto

Anaerobic digestion (AD) is a biological process that happens naturally when bacteria breaks down organic matter in environments with little or no oxygen. This title presents research in the study of the processes, products and application of anaerobic activity.

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Sommario/riassunto	Wallis considers the Aviation and Transportation Security Act adopted by the U.S. Congress in the wake of September 11, 2001, and offers a modus operandi to the FAA.