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| Autore                  | Gerardi Michael H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Descrizione fisica      | 1 online resource (189 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Collana                 | Wastewater microbiology series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Disciplina              | 628.3/5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Soggetti                | Sewage sludge digestion<br>Anaerobic bacteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 (p. 161-164) and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nota di contenuto       | The Microbiology of Anaerobic Digesters; Contents; Preface; PART I OVERVIEW; 1 Introduction; 2 Bacteria; 3 Methane-forming Bacteria; 4 Respiration; 5 Anaerobic Food Chain; 6 Fermentation; 7 Anaerobic Digestion Stages; PART II SUBSTRATES, PRODUCTS, AND BIOGAS; 8 Substrates and Products; 9 Biogas; PART III OPERATIONAL CONDITIONS; 10 Introduction to Operational Conditions; 11 Start-up; 12 Sludge Feed; 13 Retention Times; 14 Temperature; 15 Nutrients; 16 Alkalinity and pH; 17 Toxicity; 18 Mixing; PART IV PROCESS CONTROL AND TROUBLESHOOTING; 19 Upsets and Unstable Digesters 20 Foam and Scum Production and Accumulation 21 Supernatant; 22 Monitoring; PART V DIGESTERS; 23 Types of Anaerobic Digesters; 24 Anaerobic Digesters versus Aerobic Digesters; References; Abbreviations and Acronyms; Chemical Compounds and Elements; Glossary; Index |

## Sommario/riassunto

Anaerobic digestion is a biochemical degradation process that converts complex organic material, such as animal manure, into methane and other byproducts. Part of the author's Wastewater Microbiology series, Microbiology of Anareboic Digesters eschews technical jargon to deliver a practical, how-to guide for wastewater plant operators.

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