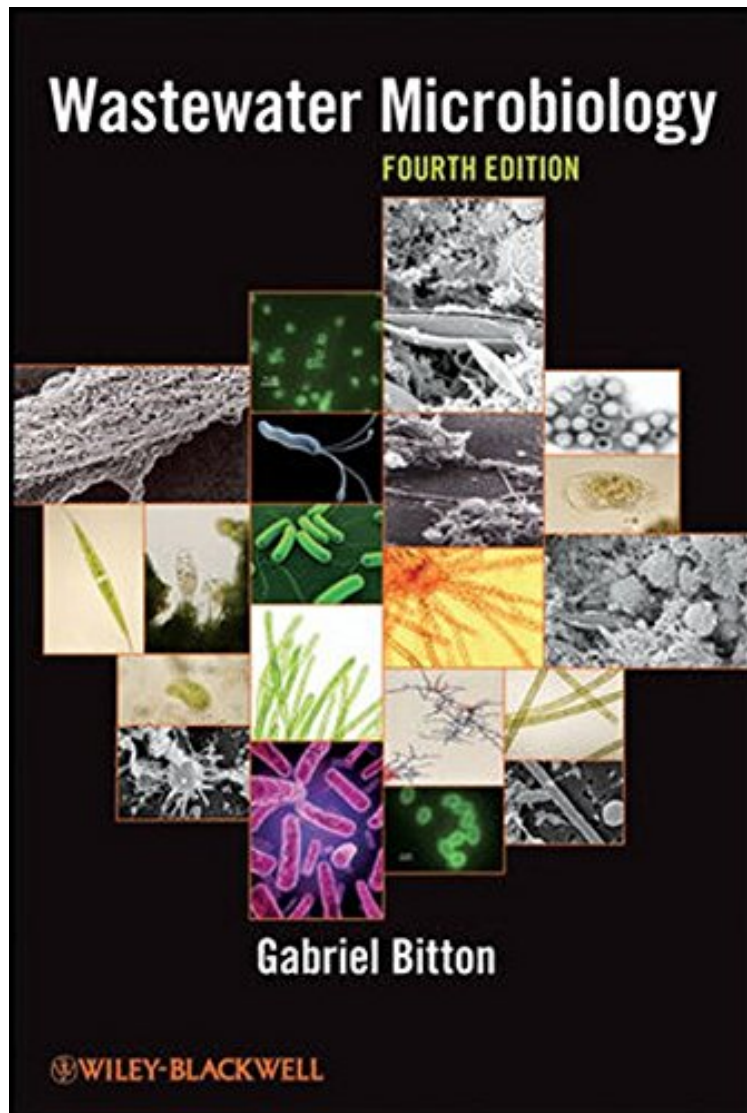


# Wastewater Microbiology

*Gabriel Bitton*

*ePub | \*DOC | audiobook | ebooks | Download PDF*



DOWNLOAD



READ ONLINE

#820302 in Books 2011-01-04Original language:EnglishPDF # 1 10.30 x 1.65 x 7.30l, 3.35 #File Name: 0470630337804 pages | File size: 38.Mb

**Gabriel Bitton : Wastewater Microbiology** before purchasing it in order to gage whether or not it would be worth my time, and all praised Wastewater Microbiology:

Wastewater Microbiology focuses on microbial contaminants found in wastewater, methods of detection for these contaminants, and methods of cleansing water of microbial contamination. This classic reference has now been updated to focus more exclusively on issues particular to wastewater, with new information on fecal contamination

and new molecular methods. The book features new methods to determine cell viability/activity in environmental samples; a new section on bacterial spores as indicators; new information covering disinfection byproducts, UV disinfection, and photoreactivation; and much more. A PowerPoint of figures from the book is available at [ftp://ftp.wiley.com/public/sci\\_tech\\_med/wastewater\\_microbiology](ftp://ftp.wiley.com/public/sci_tech_med/wastewater_microbiology).

"It is suitable as a textbook for graduate and advanced undergraduate students in environmental sciences and environmental engineering programs, and as a reference for practitioners." (Booknews, 1 February 2011)

**From the Back Cover**

The classic text in wastewater microbiology, updated for a changing field

The field of water and wastewater microbiology has advanced dramatically in recent years, spurred by growing awareness about health and environmental impacts. These advances have been thoroughly integrated into the Fourth Edition of *Wastewater Microbiology*, widely regarded as the field's definitive text reference. In this Fourth Edition, the book focuses more exclusively on issues particular to wastewater microbial contaminants found in wastewater, methods of detection for these contaminants, methods of cleansing wastewater of microbial contamination, and the health effects of microbial contamination with new information on fecal contamination and new molecular methods. The many advances in wastewater microbiology have all been thoroughly integrated into this text, including:

- A new chapter on microbial source tracking of fecal contamination of receiving waters
- Recent information on disinfection methods such as UV disinfection and photoreactivation, solar radiation, photocatalysis, ultrasonic energy, ultra-high hydrostatic pressure, membrane filtration, and the use of nanomaterials
- New methods for determining cell viability/activity in environmental samples
- An expanded section on molecular methods
- A new section on bacterial spores as indicators
- Advances in the study of the activated sludge system as well as an expanded section on Enhanced Biological Phosphorus Removal (EBPR) in activated sludge
- A new section on bioelectrochemical wastewater treatment, which is based on the use of microorganisms for the production of bioelectricity

In addition, the text includes updated content on risk assessment, methanogen classification, and methodology and inhibition of anaerobic digestion. Information concerning the growing fields of epidemiology and public health microbiology has been similarly expanded. Complete with end-of-chapter questions, this is the single go-to reference in wastewater microbiology for advanced undergraduates, graduate students, and professionals in sciences and engineering in the fields of microbiology and environmental/wastewater engineering and treatment, as well as for public health officials.