Waterborne Pathogens: Detection Methods and Applications

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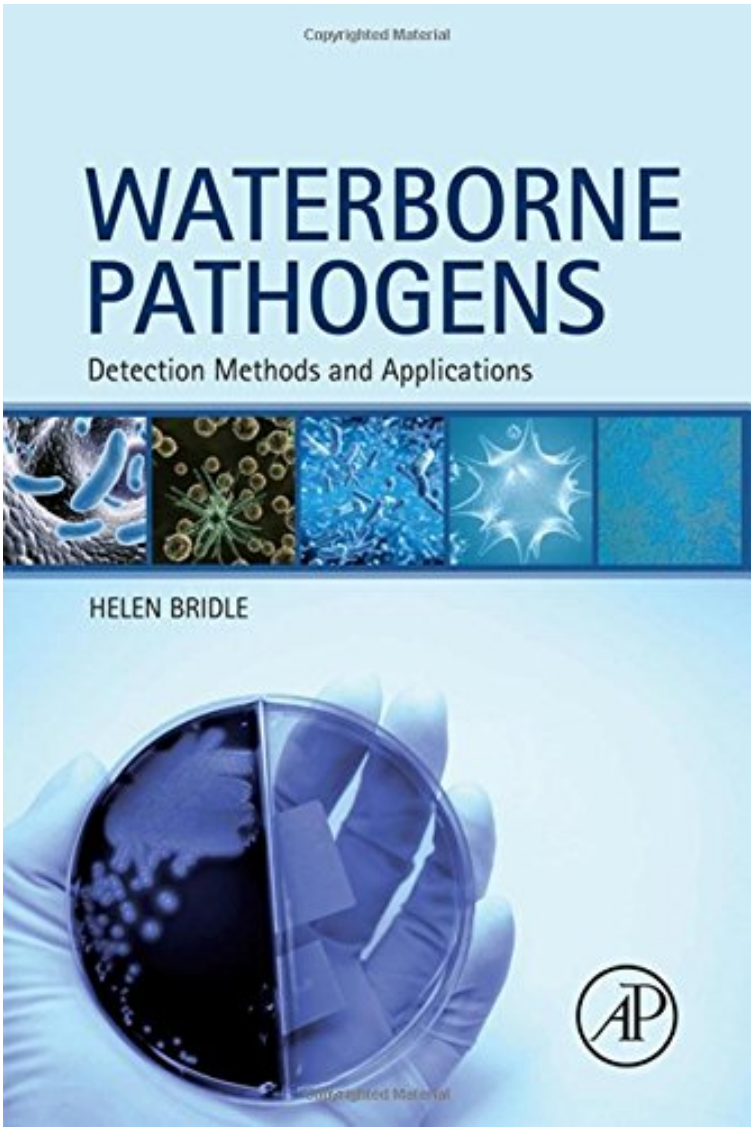

#4489764 in Books 2013-09-10Original language:EnglishPDF # 1 9.10 x 1.00 x 6.10l, 1.75 #File Name: 0444595430416 pages | File size: 40.Mb

From Academic Press : Waterborne Pathogens: Detection Methods and Applications before purchasing it in order to gage whether or not it would be worth my time, and all praised Waterborne Pathogens: Detection Methods and Applications:

This book gives an overview of advanced emerging technologies for the detection of a range of waterborne pathogens. The book will present existing methodology and highlight where improvements can be made, as well as have a strong

focus on applications and the ways in which new technology could be applied in water management. Additionally, it addresses issues of sample preparation (from sampling to concentration and enrichment), a key stage in any detection protocol. Covers the gap of specific sound methods of pathogen detection by fulfulling the need for a concept book on the novel technologies for pathogen detection in waterPresents all cutting-edge technologies for pathogen detection in water as well as recent emerging technologiesAddresses all three types of pathogens; this combined knowledge helps to understand all potential pathogens in water

"Access to clean water is one of the central problems of the modern civilization, and this volume concentrates on one of its crucial aspects: identification, detection, and classification of waterborne pathogens. Covering both theoretical and practical ground, several biological chemists and professionals address the problems inherent in this field."--ProtoView.com, January 2014 The major strength is the coverage of all three types of pathogens found in water and together in the same book as descriptions of the new technologies that are being investigated as potential improvements to current methods.--Kimberley Gilbride, Biology Program Director, Ryerson UniversityFrom the Back CoverThis book gives an overview of advanced emerging technologies for the detection of a range of waterborne pathogens. It presents existing methodology, and new techniques, highlighting where improvements can be made. There is a strong focus on applications and the ways in which new technology could be applied in water management. Additionally, the book addresses issues of sample preparation (from sampling through to concentration and enrichment), a key stage in any detection protocol.About the AuthorDr. Helen Bridle holds a 5 year Royal Academy of Engineering/EPSRC Fellowship, exploring methods of detection of waterborne pathogens, at the Institute of Biological Chemistry, Biophysics and Bioengineering at Heriot-Watt University. Prior to starting at Heriot-Watt, she held this Fellowship at the University of Edinburgh. Her PhD was undertaken at Chalmers University of Technology in Sweden and she has also worked as a research assistant at ETH Zurich in Switzerland. She has published 10 papers in high impact academic journals. Dr. Bridle is a Royal Society of Edinburgh Young Academy Member. In 2012, she was a British Science Association Media Fellow at the Scotsman. In the same year she was selected for participation in the Scottish Crucible and the European Science Foundation Junior Summit on Water: Unite and Divide. Dr. Bridle organised the publication of a special issue arising from this junior summit. She is a member of the Journal of Water Resources and Protection editorial board and the Journal of Global Health editorial council.