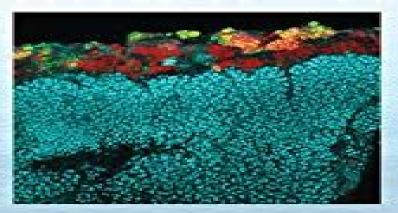
Environmental Biotechnology

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Bruce E. Rittmann, Perry L. McCarty

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The target readership of this second edition remains the young water professionals who will still be active in the field of protecting our precious water resources long after the aging professors who are leading some of these advances have retired The authors all still active in the field are aware that cleaning dirty water has become more complex but that it is even more urgent now than 12 years ago and offer this second edition to help the young water professionals engage with the scientific and bioprocess engineering principles of wastewater treatment science and technology with deeper insight advanced knowledge and greater confidence built on stronger competence

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sica ingenier a de procesos y matem ticas La gran mayor a de estos avances han madurado a tal grado que han sido codificados en modelos matem ticos para su simulaci n en computadoras Para una nueva generaci n de j venes cient ficos e ingenieros que ingresan al rea del tratamiento de aguas residuales la cantidad complejidad y diversidad de estos nuevos desarrollos puede ser abrumador particularmente en pa ses en v as de desarrollo donde no existe un f cil acceso a cursos avanzados de postgrado en tratamientos de aquas residuales Este libro tiene como objetivo resolver esta deficiencia ya que compila e integra el material de diversos cursos de postgrado de m s de una docena de grupos de investigaci n de todo el mundo que han hecho contribuciones significativas para el desarrollo del tratamiento de aguas residuales Cabe resaltar que la edici n en ingl s del presente libro forma parte de un plan de estudios en tratamiento biol gico de aguas residuales que incluye Res menes de las presentaciones y clases de los temas cubiertos en el libro Videos de las clases de los profesores autores de los cap tulos del libro Ejercicios de auto aprendizaje para los participantes en los cursos Al t rmino del plan de estudios antes mencionado los ltimos avances en modelaci n y simulaci n de la operaci n y dise o de los sistemas de tratamiento de aguas residuales ya sean lodos activados procesos de remoci n biol gica de nitr geno y f sforo clarificadores secundarios o sistemas de biopel culas pueden ser abordados con mayor profundidad conocimientos m s avanzados y mayor Forthcoming Books Rose Arny, 2003 **Environmental Biotechnology: Principles and Applications,** confianza **Second Edition** Bruce E. Rittmann, Perry L. McCarty, 2020-03-06 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The classic environmental biotechnology textbook fully updated for the latest advances This thoroughly revised educational resource presents the biological principles that underlie modern microbiological treatment technologies Written by two of the field's foremost researchers Environmental Biotechnology Principles and Applications Second Edition clearly explains the new technologies that have evolved over the past 20 years including direct anaerobic treatments membrane based processes and granular processes The first half of the book focuses on theory and tools the second half offers practical applications that are clearly illustrated through real world examples Coverage includes Moving toward sustainability Basics of microbiology Biochemistry metabolism genetics and information flow Microbial ecology Stoichiometry and energetics Microbial kinetics and products Biofilm kinetics Reactor characteristics and kinetics Methanogenesis Aerobic suspended growth processes Aerobic biofilm processes Nitrogen transformation and recovery Phosphorus removal and recovery Biological treatment of drinking water Genetic Engineering and Biotechnology Related Firms Worldwide **Directory**, 1988 Internet Directory Product Directory and US and Foreign Firms Manual, bioventing principles and **Biostatistics** P. Mariappan, 2013 **New Technical Books** New York Public Library, 1986 practices, Green Analytical Chemistry Mihkel Koel, Mihkel Kaljurand, 2019-03-13 Chemical analysis requires solvents reagents and energy and generates waste The main goal of green analytical chemistry is to avoid or reduce the undesirable environmental side

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