

# Anaerobic Biotechnology

For Industrial Wastewaters

A large, gnarled piece of driftwood, likely from a cypress tree, is the central focus of the image. It is positioned on a sandy, rocky shore. The wood is bleached white and grey, with intricate, twisted shapes. In the background, there is a calm body of water and distant, hazy hills under a clear, bright blue sky. The overall scene is serene and natural.

**R.E. Speece**  
Vanderbilt University

# Anaerobic Biotechnology For Industrial Wastewaters

**Charis M. Galanakis, Evita Agrafioti**



## **Anaerobic Biotechnology For Industrial Wastewaters:**

Anaerobic Biotechnology for Industrial Wastewaters Richard E. Speece, 1996

## **Environmental Biotechnology**

Hans-Joachim Jördening, Josef Winter, 2005-01-24 Environmental Biotechnology bietet dem Leser einen vertiefenden Einblick in die komplexen Prozesse umweltbiotechnologischer Verfahren und enthält die dazu einschlägigen biologischen, chemischen und ingenieurwissenschaftlichen Grundlagen für die Fortentwicklung wirkungsvoller Verfahren. Reinhaltung, Schutz und Sicherung von Wasser, Boden und Luft stellen eine große Herausforderung vor allem in den stark industrialisierten Ländern dar. Das Buch umfasst alle vier großen Gebiete der Umweltbiotechnologie: Wastewater Treatment, Soil Treatment, Solid Waste Treatment, Waste Gas Treatment. Jedem dieser vier Bereiche sind umfassende Kapitel gewidmet, die sich sowohl mit den mikrobiologischen als auch mit verfahrenstechnischen Aspekten beschäftigen. Mit diesem Buch erhält der Leser in konzentrierter Form das in den höchst erfolgreichen Bänden 11a bis 11c der Biotechnology Reihe zusammengetragene Wissen in Händen.

**Focus on Biotechnology Research** Edwin C. Hearn, 2006 Biotechnology is a collection of technologies that capitalise on the attributes of cells and biological molecules. Biotechnology will help improve the ability to customise therapies based on individual genomics, prevent, diagnose and treat all types of diseases rather than rely on rescue therapy and provide breakthroughs in agricultural production and food safety. This book offers new research in this growing field.

Biological Wastewater Treatment: Principles, Modeling and Design Guang-Hao Chen, Mark C.M. van Loosdrecht, G.A.

Ekama, Damir Brdjanovic, 2020-07-15 The first edition of this book was published in 2008 and it went on to become IWA Publishing's bestseller. Clearly there was a need for it because over the twenty years prior to 2008 the knowledge and understanding of wastewater treatment had advanced extensively and moved away from empirically based approaches to a fundamental first principles approach based on chemistry, microbiology, physical and bioprocess engineering, mathematics and modelling. However the quantity, complexity and diversity of these new developments was overwhelming for young water professionals, particularly in developing countries without readily available access to advanced level tertiary education courses in wastewater treatment. For a whole new generation of young scientists and engineers entering the wastewater treatment profession, this book assembled and integrated the postgraduate course material of a dozen or so professors from research groups around the world who have made significant contributions to the advances in wastewater treatment. This material had matured to the degree that it had been codified into mathematical models for simulation with computers. The first edition of the book offered that upon completion of an in-depth study of its contents, the modern approach of modelling and simulation in wastewater treatment plant design and operation could be embraced with deeper insight, advanced knowledge and greater confidence. Be it activated sludge, biological nitrogen and phosphorus removal, secondary settling tanks or biofilm systems. However the advances and developments in wastewater treatment have accelerated over the past 12 years since publication of the first edition. While all the chapters of the first edition have been updated to accommodate these

advances and developments some such as granular sludge membrane bioreactors sulphur conversion based bioprocesses and biofilm reactors which were new in 2008 have matured into new industry approaches and are also now included in this second edition 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

**Biologische Behandlung organischer Abfälle** Peter Kämpfer, Walter D. Weißenfels, 2013-03-11 Die biologische Abfallbehandlung hat sich mit der Kompostierung und etwa 40 Vergärungsanlagen in der Bundesrepublik zu einem zentralen Faktor der Kreislaufwirtschaft entwickelt Im Prinzip entspricht diese Kompostierung und Vergärung einer Intensivierung und kontrollierten Nutzung natürlicher Stoffkreisläufe Dabei greifen biologische und technische Prozesse komplex ineinander Die Hauptakteure sind Mikroorganismen die organische Substanzen enzymatisch abbauen Die ersten Kapitel der vorliegenden Studie geben einen Überblick über die für den Abbau biogener Substanzen wichtigsten mikrobiologischen Stoffwechselwege weitere Beiträge stellen einige im Einsatz befindliche Anlagen und die etablierten Verfahrensprinzipien vor Danach werden Methoden zur Prozessführung und Charakterisierung also zur Überprüfung der Effizienz laufender Kompostierungs- und Vergärungsvorgänge erläutert

**Fundamentals of Wastewater Treatment and Engineering** Rumana Riffat, Taqsim Husnain, 2022-04-27 The 2nd edition of Fundamentals of Wastewater Treatment and Design introduces readers to the fundamental concepts of wastewater treatment followed by engineering design of unit processes for sustainable treatment of municipal wastewater and resource recovery It has been completely updated with new chapters to reflect current advances in design resource recovery practices and research Another highlight is the addition of the last chapter which provides a culminating design experience of both urban and rural wastewater treatment systems Filling the need for a textbook focused on wastewater it covers history current practices emerging concerns future directions and pertinent regulations that have shaped the objectives of this important area of engineering Basic principles of reaction kinetics reactor design and environmental microbiology are introduced along with natural purification processes It also details the design of unit processes for primary secondary and advanced treatment as well as solids processing and removal Recovery of water energy and nutrients are explained with the help of process concepts and design applications This textbook is designed for undergraduate and graduate students who have some knowledge of environmental chemistry and fluid mechanics Professionals in the wastewater industry will also find this a handy reference

*Instrumentation, Control and Automation in Wastewater Systems* Gustaf Olsson, M. Nielsen, Zhiguo Yuan, Anders Lynggaard-Jensen, J.-P. Steyer, 2005-04-30 Instrumentation control and automation ICA in wastewater treatment

systems is now an established and recognised area of technology in the profession There are obvious incentives for ICA not the least from an economic point of view Plants are also becoming increasingly complex which necessitates automation and control Instrumentation Control and Automation in Wastewater Systems summarizes the state of the art of ICA and its application in wastewater treatment systems and focuses on how leading edge technology is used for better operation The book is written for The practising process engineer and the operator who wishes to get an updated picture of what is possible to implement in terms of ICA The process designer who needs to consider the couplings between design and operation The researcher or the student who wishes to get the latest technological overview of an increasingly complex field There is a clear aim to present a practical ICA approach based on a technical and economic platform The economic benefit of different control and operation possibilities is quantified The more qualitative benefits such as better process understanding and more challenging work for the operator are also described Several full scale experiences of how ICA has improved economy ease of operation and robustness of plant operation are presented The book emphasizes both unit process control and plant wide operation Scientific Technical Report No 15 *Handbuch zur Bilanzierung von Biogasanlagen für Ingenieure - Band I* Gerhard Langhans, Frank Scholwin, Michael Nelles, 2019-11-27 Aus dem breiten Anwendungsfeld für Biogasgewinnung ergeben sich mannigfaltige Anforderungen die den Praktiker oft vor spezielle Herausforderungen stellen Hier setzt das Buch an und konzentriert sich auf die in der Praxis relevanten technischen Herausforderungen der Technologie und bereitet die wissenschaftlichen Grundlagen der anaeroben Prozessführung für Herausforderungen in der Praxis auf Anwendbarkeit Interpretation der Messgrößen Zuverlässigkeit von Bewertungsmethoden und stellt zur schnellen Abschätzung u.a. Nomogramme und Parametersammlungen zur Verfügung *Waste Treatment in the Process Industries* Lawrence K. Wang, Yung-Tse Hung, Howard H. Lo, Constantine Yapijakis, 2005-10-31 Increasing demand on industrial capacity has as an unintended consequence produced an accompanying increase in harmful and hazardous wastes Derived from the second edition of the popular Handbook of Industrial and Hazardous Wastes Treatment Waste Treatment in the Process Industries outlines the fundamentals and latest developments in waste treatment **Wastewater Treatment and Reuse, Theory and Design Examples, Volume 1** Syed R. Qasim, Guang Zhu, 2017-11-22 This book will present the theory involved in wastewater treatment processes define the important design parameters involved and provide typical values of these parameters for ready reference and also provide numerical applications and step by step calculation procedures in solved examples These examples and solutions will help enhance the readers comprehension and deeper understanding of the basic concepts and can be applied by plant designers to design various components of the treatment facilities It will also examine the actual calculation steps in numerical examples focusing on practical application of theory and principles into process and water treatment facility design **Waste-to-Resources 2009 3. Internationale Tagung MBA und Sortieranlagen** Matthias Kühle-Weidemeier, 2009-04-28 **Sustainable Water and Wastewater Processing** Charis M. Galanakis, Evita

Agrafioti,2019-05-08 Sustainable Water and Wastewater Processing covers the 12 most current topics in the field of sustainable water processing with emphasis given to water as a resource quality supply distribution and aquifer recharge Topics covered include emerging sustainable technologies for potable and wastewater treatment water reuse and recycling advanced membrane processes desalination technologies integrated and hybrid technologies process modeling advanced oxidative and catalytic processes environmentally economically and socially sustainable technology for water treatment industrial water treatment reuse and recovery of materials and emerging nanotechnology and biotechnology for water processing Responding to the goals of sustainability requires the maximum utilization of all water resources water processing with restricted energy costs and reduced greenhouse gas production Following these trends this book covers all the important aspects of sustainable water processing and support Covers cutting edge topics of water process engineering sustainability and energy efficiency Fills the transfer knowledge gap between academia and industry by analyzing the associated environmental economic and sustainability challenges of water processing Includes theoretical and applied research and technological and industrial solutions for sustainable economic and large scale water treatment recycling and reutilization Analyzes potentiality and economic feasibility of already commercialized processes *Waste Treatment in the Food Processing Industry* Lawrence K. Wang,Yung-Tse Hung,Howard H. Lo,Constantine Yapijakis,2005-09-29 Many standard industrial waste treatment texts sufficiently address a few major technologies for conventional in plant environmental control strategies in the food industry But none explore the complete range of technologies with a focus on new developments in innovative and alternative technology design criteria effluent standards managerial d Handbook of Water and Wastewater Microbiology Duncan Mara,Nigel J. Horan,2003-08-07 Access to safe water is a fundamental human need and therefore a basic human right Kofi Annan United Nations Secretary General Edited by two world renowned scientists in the field The Handbook of Water and Wastewater Microbiology provides a definitive and comprehensive coverage of water and wastewater microbiology With contributions from experts from around the world this book gives a global perspective on the important issues faced in the provision of safe drinking water the problems of dealing with aquatic pollution and the processes involved in wastewater management Starting with an introductory chapter of basic microbiological principles The Handbook of Water and Wastewater Microbiology develops these principles further ensuring that this is the essential text for process engineers with little microbiological experience and specialist microbiologists alike Comprehensive selection of reviews dealing with drinking water and aquatic pollution Provides an understading of basic microbiology and how it is applied to engineering process solutions Suitable for all levels of knowledge in microbiology from those with no background to specialists who require the depth of information The Biogas Handbook Arthur Wellinger,J. Patrick Murphy,David Baxter,2013-02-19 The biogas handbook Science production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and technology Environmental Bioengineering Lawrence K.

Wang, Joo-Hwa Tay, Stephen Tiong Lee Tay, Yung-Tse Hung, 2010-06-25 The past 30 years have seen the emergence of a growing desire worldwide that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air water soil and noise Since pollution is a direct or indirect consequence of waste production the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved This book is one of the volumes of the Handbook of Environmental Engineering series The principal intention of this series is to help readers formulate answers to the above three questions The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However the realization of the ever increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken

*Biohythane* Debabrata Das, Shantonu Roy, 2016-11-18 This book is a novel attempt at describing the fundamental aspects of and advancements in the field of biohythane production The comprehensive collection of chapters is based on the fundamentals of heterotrophic hydrogen production and consequent methane production technologies Emphasis is on the integration of two stages of a hybrid system for maximum gaseous energy generation from organic wastes thus making the overall process economically viable Readers get insight into the technological advancements made in the field of biohydrogen and biomethane production and the challenges involved in integrating these two technologies The book also includes details of the microbiological biochemical and bioprocess aspects related to biohythane production in addition to the applicability of this process its socioeconomic concerns and cost energy analysis supplemented with illustrative diagrams flowcharts and comprehensive tables It will be an ideal *vade mecum* for advanced undergraduate and graduate level students of biotechnology microbiology biochemical engineering chemical engineering and energy engineering teachers and researchers in bioenergy the environment and biofuel production and policy makers

*Artificial Intelligence for Renewable Energy and Climate Change* Pandian Vasant, Gerhard-Wilhelm Weber, J. Joshua Thomas, José Antonio Marmolejo-Saucedo, Roman Rodriguez-Aguilar, 2022-08-23 ARTIFICIAL INTELLIGENCE FOR RENEWABLE ENERGY AND CLIMATE CHANGE Written and edited by a global team of experts in the field this groundbreaking new volume presents the concepts and fundamentals of using artificial intelligence in renewable energy and climate change while also covering the practical applications that can be utilized across multiple disciplines and industries for the engineer the student and other professionals and scientists Renewable energy and climate change are two of the most important and difficult issues facing the world today The state of the art in these areas is changing rapidly with new

techniques and theories coming online seemingly every day It is important for scientists engineers and other professionals working in these areas to stay abreast of developments advances and practical applications and this volume is an outstanding reference and tool for this purpose The paradigm in renewable energy and climate change shifts constantly In today s international and competitive environment lean and green practices are important determinants to increase performance Corresponding production philosophies and techniques help companies diminish lead times and costs of manufacturing improve delivery on time and quality and at the same time become more ecological by reducing material use and waste and by recycling and reusing Those lean and green activities enhance productivity lower carbon footprint and improve consumer satisfaction which in reverse makes firms competitive and sustainable This practical new groundbreaking volume Features coverage on a wide range of topics such as classical and nature inspired optimization and optimal control hybrid and stochastic systems Is ideally designed for engineers scientists industrialist academicians researchers computer and information technologists sustainable developers managers environmentalists government leaders research officers policy makers business leaders and students Is useful as a practical tool for practitioners in the fields of sustainable and renewable energy sustainability Includes wide coverage of how artificial intelligence can be used to impact the struggle against global warming and climate change

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