

BIOLOGICAL WASTEWATER TREATMENT

VOLUME 4

ANAEROBIC REACTORS

Carlos Augusto de Lemos Chemicharo



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Anaerobic Reactors Carlos Augustos de Lemos Chernicharo, 2007-03-30 Anaerobic Reactors is the forth volume in the series Biological Wastewater Treatment The fundamentals of anaerobic treatment are presented in detail including its applicability microbiology biochemistry and main reactor configurations Two reactor types are analysed in more detail namely anaerobic filters and especially UASB upflow anaerobic sludge blanket reactors Particular attention is also devoted to the post treatment of the effluents from the anaerobic reactors The book presents in a clear and informative way the main concepts working principles expected removal efficiencies design criteria design examples construction aspects and operational guidelines for anaerobic reactors About the series The series is based on a highly acclaimed set of best selling textbooks This international version is comprised by six textbooks giving a state of the art presentation of the science and technology of biological wastewater treatment Other titles in the series are Volume 1 Waste Stabilisation Ponds Volume 2 Basic Principles of Wastewater Treatment Volume 3 Waste Stabilization Ponds Volume 5 Activated Sludge and Aerobic Biofilm Reactors Volume 6 Sludge Treatment and Disposal

Anaerobic Reactors for Sewage Treatment: Design, construction and operation Carlos Augusto de Lemos Chernicharo, Thiago Bressani-Ribeiro, 2019-07-15 Anaerobic sewage treatment using UASB reactors has significantly expanded in the last few decades and is now a consolidated technology in some warm climate regions Several advantages of the anaerobic process make it a more sustainable option for sewage treatment However there are still important constraints related to design construction and operation of UASB reactors Conversely there is enough knowledge experience and proven technology that can be used to effectively tackle all the related drawbacks This book delivers the most relevant techno scientific developments from academia and water authorities comprehensively addressing the main aspects of interest in design construction and operation of UASB reactors for sewage treatment Special attention is given to the proper and integrated management of sludge scum gaseous emissions energy recovery and effluent quality The main purpose is to provide information and share experiences not yet compiled in the specialized literature on anaerobic sewage treatment Therefore a sequence of 12 well interconnected chapters consolidates the practical knowledge and experiences that important research groups and recognized professionals worldwide have acquired over the past 20 years in demo and full scale anaerobic based sewage treatment plants Anaerobic Reactors for Sewage Treatment Design Construction and Operation can significantly contribute towards a responsible expansion of the anaerobic technology in the world The book is a valuable tool for engineers constructors operators wastewater utility managers as well as for students interested in anaerobic processes for sewage treatment

Anaerobic Digestion Carlos Augusto de Lemos Chernicharo, E. Foresti, L. Florencio, M. T. Kato, 2001-07-31 Over the last decade the Latin American Workshop and Seminar on Anaerobic Digestion has become not only the premier regional forum for discussion integration

and exchange of experience among professionals active in this field but has acquired a wider reputation Not only does it contribute significantly to the diffusion of anaerobic technologies and processes in Latin America but it provides a forum for the work of the world s experts in anaerobic digestion From the many contributions to the 6th workshop and seminar 41 papers of high quality have been selected They range over the following topics traditional and innovative configuration of anaerobic reactors experience with pilot and full scale anaerobic treatment of domestic and industrial wastewater anaerobic digestion of solid waste anaerobic degradation of recalcitrant compounds anaerobic biofilm and granular sludge pretreatment of anaerobic effluents and integration of anaerobic aerobic processes and operation and control of anaerobic reactors

Biological Wastewater Treatment C. P. Leslie Grady Jr., Glen T. Daigger, Nancy G. Love, Carlos D. M. Filipe, 2011-05-09 Following in the footsteps of previous highly successful and useful editions Biological Wastewater Treatment Third Edition presents the theoretical principles and design procedures for biochemical operations used in wastewater treatment processes It reflects important changes and advancements in the field such as a revised treatment of the microbiology and kinetics of nutrient removal and an update of the simulation of biological phosphorous removal with a more contemporary model See what s new in the Third Edition A chapter devoted to the description and simulation of anaerobic bioreactors Coverage of applications of submerged attached growth bioreactors Expanded discussion of modeling attached growth systems Increased information on the fate and effects of trace contaminants as they relate to xenobiotic organic chemicals A chapter on applying biochemical unit operations to design systems for greater sustainability The book describes named biochemical operations in terms of treatment objectives biochemical environment and reactor configuration introduces the format and notation used throughout the text and presents the basic stoichiometry and kinetics of microbial reactions that are key to quantitative descriptions of biochemical operations It then examines the stoichiometry and kinetics used to investigate the theoretical performance of biological reactors containing microorganisms suspended in the wastewater The authors apply this theory to the operations introduced taking care to highlight the practical constraints that ensure system functionality in the real world The authors focus on further biochemical operations in which microorganisms grow attached to solid surfaces adding complexity to the analysis even though the operations are often simpler in application They conclude with a look to the future introducing the fate and effects of xenobiotic and trace contaminants in wastewater treatment systems and examining how the application of biochemical operations can lead to a more sustainable world

Anaerobic Municipal Wastewater Treatment: Comparison and Assessment of Different Design Approaches for UASB-Reactors Felipe Teixeira de Carvalho, 2014-04-11 Inhaltsangabe Introduction It is well known that freshwater is finite and an indispensable resource for any living organism on Earth Inappropriately during the last decades anthropogenic activities expansion in parallel with population growth has been the main cause of the deterioration of water quality According to UNESCO the world s population is growing nearby 80 million people each year which suggests an increasing of

freshwater demand of about 64 billion m³ a year Likewise the demographic estimations indicate that 90% of the 3 billion people who are expected to be added to the world population in 2050 will be living in developing countries mainly in regions that are already by this time in water stress However in order to relate the increasing demand for water not only the demographic aspect should be taken into account but also economic and social aspects must be considered The economic expansion affects water since there is an increase in the number of consumers as well as modifications in their consumption habits in a way that services are offered goods are produced and transported The social aspect points out to individual rather than collective actions mainly considering poverty education culture lifestyle and consumption patterns Obviously the demand and the importance for satisfactory sanitation conditions become indispensable The World Health Organization WHO and The United Nations Children s Fund UNICEF report that 2.5 billion people still have a lack of access to improved sanitation including 1.2 billion people who have no facilities at all While in developed areas the sanitation coverage achieves 99% in developing regions this number is around 53% Furthermore in Latin America and the Caribbean the coverage sanitation is approximately 79% In Brazil target area of this study only 55.2% of the municipalities are covered by a sewage collection system In this manner coverage sanitation does not mean necessarily that the wastewater is treated Hence the wastewater must be followed by a treatment system removal of physical chemical and biological compounds in order to achieve pollution mitigation targets for the environmental quality and human health and welfare According to UNESCO more than 80% of the domestic wastewater in developing countries is discharged untreated polluting rivers lakes and coastal areas Therefore a large number of technologies have been developed with the intention

Biological Wastewater Treatment, Revised and Expanded Carlos D.M. Filipe, C.P. Leslie Grady, Jr., 1998-10-15 Written by noted experts in the field sharing extensive academic and industrial experience this thoroughly updated Second Edition covers commonly used and new suspended and attached growth reactors The authors discuss combined carbon and ammonia oxidation activated sludge biological nutrient removal aerobic digestion anaerobic processes lagoons trickling filters rotating biological contactors fluidized beds and biologically aerated filters They integrate the principles of biochemical processes with applications in the real world communicating approaches to the conception design operation and optimization of biochemical unit operations in a comprehensive yet lucid manner

Advanced Biological Processes for Wastewater Treatment Márcia Dezotti, Geraldo Lippel, João Paulo Bassin, 2017-09-12 This book presents recent developments in advanced biological treatment technologies that are attracting increasing attention or that have a high potential for large scale application in the near future It also explores the fundamental principles as well as the applicability of the engineered bioreactors in detail It describes two of the emerging technologies membrane bioreactors MBR and moving bed biofilm reactors MBBR both of which are finding increasing application worldwide thanks to their compactness and high efficiency It also includes a chapter dedicated to aerobic granular sludge AGS technology and discusses the main features and applications of this promising

process which can simultaneously remove organic matter nitrogen and phosphorus and is considered a breakthrough in biological wastewater treatment Given the importance of removing nitrogen compounds from wastewater the latest advances in this area including new processes for nitrogen removal e g Anammox are also reviewed Developments in molecular biology techniques over the last twenty years provide insights into the complex microbial diversity found in biological treatment systems The final chapter discusses these techniques in detail and presents the state of the art in this field and the opportunities these techniques offer to improve process performance *Biological Wastewater Treatment Processes* Davide Dionisi, 2017-02-03 The focus of the book is on how to use mass and heat balances to simulate and design biological wastewater treatment processes All the main processes for biological wastewater treatment are covered viz activated sludge processes for carbon and nitrogen removal anaerobic digestion sequencing batch reactors and attached growth processes

Advanced Biological Treatment Processes Lawrence K. Wang, Nazih K. Shammas, Yung-Tse Hung, 2010-03-10 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 Because pollution is a direct or indirect consequence of waste 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 last two questions above 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 Current Developments in Biotechnology and Bioengineering Xuan-Thanh Bui, Dinh Duc Nguyen, Phuoc-Dan Nguyen, Huu Hao Ngo, Ashok Pandey, 2022-08-19 *Advances in Biological Wastewater Treatment Systems* covers different recent advanced technologies including green technologies for biological wastewater treatment and wastewater reuse The technologies involve novel biological processes and/or modified processes coupled with nano materials for improving the performance of the existing treatment processes The book also describes treatment strategies for the current pollution from complex organic matter nutrients toxic substances micro plastics and emerging micro pollutants in different water resources The treatment processes describe the recent developed technologies for wastewater treatment and reuse such as biological nutrient removal bioreactors photobioreactors membrane bioreactors wetlands algae bacteria process natural treatments integrated

hybrid bio systems etc The novel bio systems include aerobic anaerobic facultative operation modes with various of types of microorganisms Provides updated information on biological nutrient removal from wastewater Includes anaerobic and aerobic wastewater treatment processes Provides state of art information on design and operation of novel systems including membrane bioreactors Describes hybrid treatment processes *Anaerobic Waste-Wastewater Treatment and Biogas Plants* Joseph Chukwuemeka Akunna,2018-07-16 The book guides specialists and non specialists from around the world on how or whether anaerobic processes can be part of solutions for the management of municipal and industrial solid semi solid and liquid residues The simple self learning presentation style is designed to encourage deep understanding of the process principles plant types and system configurations performance capabilities operational and maintenance requirements post treatment needs and management options for coproducts without complex biochemical terminologies and equations It describes key aerobic biological treatment processes used in conjunction with anaerobic biological treatment in feedstock pre treatment and in post treatment of by products Practical pre treatment processes techniques and operations are described alongside additional treatment techniques of biogas digestates and treated effluents for various end use options Effective applications in developing countries are also considered enabling practitioners and plant operators to effectively apply technology in temperate and warm climatic conditions **Biological Wastewater Treatment, Second Edition, Revised and Expanded** Carlos D.M. Filipe,C.P. Leslie Grady, Jr.,1998-10-15 Written by noted experts in the field sharing extensive academic and industrial experience this thoroughly updated Second Edition covers commonly used and new suspended and attached growth reactors The authors discuss combined carbon and ammonia oxidation activated sludge biological nutrient removal aerobic digestion anaerobic processes lagoons trickling filters rotating biological contactors fluidized beds and biologically aerated filters They integrate the principles of biochemical processes with applications in the real world communicating approaches to the conception design operation and optimization of biochemical unit operations in a comprehensive yet lucid manner *Post Treatments of Anaerobically Treated Effluents* Vinay Kumar Tyagi,Abid Ali Khan,Ng Wun Jern,Anwar Khursheed,A. A. Kazmi,2019-06-15 The anaerobic process is considered to be a sustainable technology for organic waste treatment mainly due to its lower energy consumption and production of residual solids coupled with the prospect of energy recovery from the biogas generated However the anaerobic process cannot be seen as providing the complete solution as its treated effluents would typically not meet the desired discharge limits in terms of residual carbon nutrients and pathogens This has given impetus to subsequent post treatment in order to meet the environmental legislations and protect the receiving water bodies and environment This book discusses anaerobic treatment from the perspective of organic wastes and wastewaters municipal and industrial followed by various post treatment options for anaerobic effluent polishing and resource recovery Coverage will also be from the perspective of future trends and thoughts on anaerobic technologies being able to support meeting the increasingly stringent disposal standards The resource recovery angle is

particularly interesting as this can arguably help achieve the circular economy It is intended the information can be used to identify appropriate solutions for anaerobic effluent treatment and possible alternative approaches to the commonly applied post treatment techniques The succeeding discussion is intended to lead on to identification of opportunities for further research and development This book can be used as a standard reference book and textbook in universities for Master and Doctoral students The academic community relevant to the subject namely faculty researchers scientists and practicing engineers will find the book both informative and as a useful source of successful case studies

Anaerobic Digestion Processes in Industrial Wastewater Treatment Sandra M. Stronach, Thomasine Rudd, John N. Lester, 2011-11-17 There have been many significant microbiological biochemical and technological advances made in the understanding and implementation of anaerobic digestion processes with respect to industrial and domestic wastewater treatment Elucidation of the mechanisms of anaerobic degradation has permitted a greater control over the biological parameters of waste conversion and the technical advances achieved have reduced the time and land area requirements and increased the cost effectiveness and efficiency of the various processes presently in use By product recovery in the form of utilisable methane gas has become increasingly feasible while the development of new and superior anaerobic reactor designs with increased tolerance to toxic and shock loadings of concentrated effluents has established a potential for treating many extremely recalcitrant industrial wastestreams The major anaerobic bioreactor systems and their applications and limitations are examined here together with microbiological and biochemical aspects of anaerobic wastewater treatment processes London June 1986 S M Stronach T Rudd J N Lester v Table of Contents 1 The Biochemistry of Anaerobic Digestion 1 1 1 Kinetics of Substrate Utilisation and Bacterial Growth 3 1 1 1 COD Fluxes and Mean Carbon Oxidation State 3 1 1 2 Bacterial Growth and Biokinetics 4 1 1 2 1 Growth and Single Substrate Kinetics 4 1 1 2 2 Multisubstrate Systems 8 1 2 Kinetics and Biochemistry of Hydrolysis 8 1 3 Kinetics and Biochemistry of Fermentation and J1 Oxidation 11 1

Anaerobic Wastewater Treatment Nicholas F Gray, 2025-04-29 This book introduces the reader to the exciting range of modern anaerobic processes that are now available for wastewater treatment To meet the new challenges of population growth global warming and the existing problems of protecting biodiversity and public health we must move away from existing energy intensive aerobic treatment processes to more sustainable systems Embracing the circular economy concept wastewater treatment plants are changing from being solely about pollution control to resource recovery centers and to achieve this anaerobic treatment is required Among the huge range of valuable by products that can be generated by fermentation are biomethane biohydrogen bioplastics biodiesel and volatile fatty acids which are used in the food chemical and pharmaceutical sectors The scope of the book covers all aspects of anaerobic wastewater treatment including the microbiology and chemistry of hydrolysis acidogenesis acetogenesis and methanogenesis and the main end products of digestion including contaminants All processes are discussed including digesters combined attached growth and floc based systems Biogas production is examined along

with biomethane and biohydrogen The book finishes by looking at the key sustainable factors of anaerobic treatment and how biotechnology is pushing towards more efficient and reliable processes This interdisciplinary book is essential reading for both engineers and scientists whether training at university or practitioners and consultants in the wastewater industry

Advancements in Bio-systems and Technologies for Wastewater Treatment Soumya Pandit, Lakhan Kumar, Abhilasha Singh Mathuriya, Dipak Ashok Jadhav, Subhasree Ray, 2024-07-30 This book explains the main problems of industrial wastewater treatments and how they are being treated by innovative biological processes The need for clean water in developing countries has become difficult to achieve as a result of globalization and industrialization and because of an increase in population urbanization and per capita water use Residential commercial industrial and educational institutions produce immense amounts of wastewater Wastewater is treated to extract toxins to produce processed effluent by physical chemical and biological processes Most of these innovative treatment systems are membrane filtration advanced oxidation processes and electrochemical approaches which are strongly committed to offering solutions to help protect public health and the environment For wastewater treatment different forms of bioreactors are used which are reliable cost efficient and effective in removing a wide variety of contaminants This book outlines the capacity of various bioreactors that are most widely used for the treatment of different industrial and domestic wastewater such as a rotating biological contactor biological fluidized bed reactor packed bed reactor membrane bioreactor continuous stirred tank bioreactor up flow anaerobic sludge blanket reactor and photobioreactor etc Despite this the acceptance of these technologies and their commercialization on an industrial scale the performance is still limited Therefore a broader use of cost effective in situ remedial approaches to natural phenomena like bioremediation is needed The role of numerous bioreactors in industrial effluent treatment has including recent developments also been explored in depth Furthermore it includes the operational factors affecting their performances advances in their architectural design their amalgamation with the existing setup scale up studies life cycle assessment of those reactors materials and cost analysis etc This information helps the reader to understand the insight into the mechanism pros and cons moreover efficient utilization and commissioning of bioreactors

Biological Treatment of Waste-water Michael A. Winkler, 1981 *Biological Wastewater Treatment: Principles, Modeling and Design* Linda Carr, 2022-09-20 Processes which remove the harmful contaminants from water primarily through the use of some bacteria protozoa or other microorganisms are studied under biological wastewater treatment These microorganisms cause breakdown of organic pollutants in water to create a flocculation effect This enables the organic matter to settle out of the solution Biological wastewater treatment processes are classified into three categories namely aerobic anaerobic and anoxic Aerobic wastewater treatment technologies include activated sludge systems fixed bed bioreactors membrane bioreactors and biological trickling filters Anaerobic technologies are divided into upflow anaerobic sludge blankets and anaerobic digesters Most of the topics introduced in this book cover new techniques and the applications of biological

wastewater treatment The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail As this field is emerging at a rapid pace the contents of this book will help the readers understand the principles modeling and design of biological wastewater treatment *Biological Wastewater Treatment* Mark C. M. van Loosdrecht, G. A. Ekama, Damir Brdjanovic, G. H. Chen, 2023-08-15 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 *Design of Anaerobic Processes for Treatment of Industrial and Municipal Waste, Volume VII* Joseph Malina, 2017-11-22 Principles methods and calculations for evaluating designing and operating anaerobic systems

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