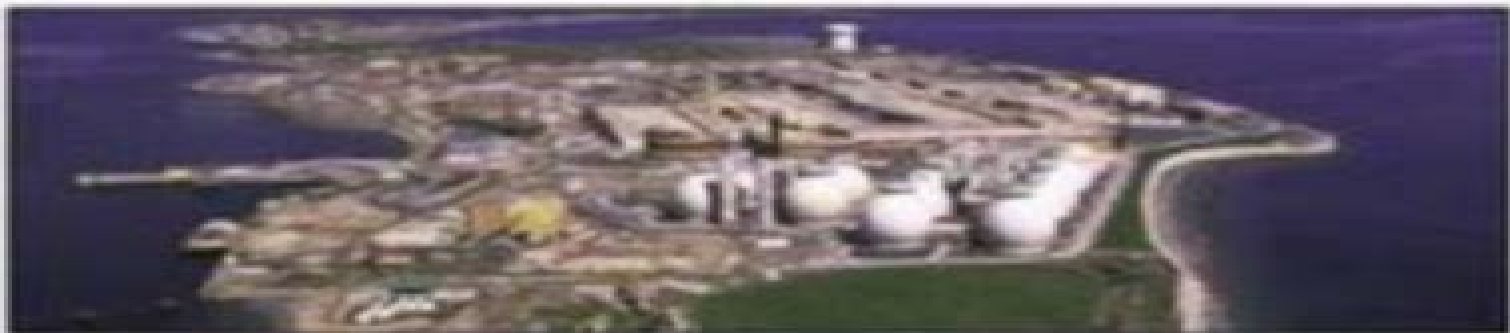


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Activated Sludge: Developments And Sustainable Solutions Nicholas F Gray, 2023-02-27 Activated sludge is the most widely used biological wastewater treatment process globally to date although its high energy demand makes it a major contributor of greenhouse gas emissions Over recent decades it has been constantly modified and retrofitted to treat ever higher loads or improve effluent standards which have often resulted in even greater carbon emissions Conventional activated sludge treatment is at a crossroads where new sustainable solutions are required if we are to protect the quality of our rivers and meet net zero carbon targets The book details current operation and design with special emphasis on the biological aspects of the process From the microbial kinetics to the fascinating process of floc formation and development the book explores the development of our understanding of the process looking at new sustainable designs including biological nutrient removal and new aeration systems Sludge separation problems and control options are explained with a trouble shooting guide to non bulking problems Environmental issues including noise odor aerosols micro plastics and nanoparticles are all reviewed as is pathogen removal and the problem of antibiotic resistant genes and bacteria The development of membrane bioreactors has increased process reliability and effluent quality while integrated fixed film activated sludge processes are more efficient and compact The book concludes by exploring how activated sludge can become more sustainable for example by carbon harvesting and byproduct recovery This interdisciplinary book is essential reading for both engineers and scientists whether training at university or practitioners and consultants in the wastewater industry Related

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Treatment Processes Lawrence K. Wang, Yung-Tse Hung, Nazih K. Shammash, 2005-03-11 The past 30 years have seen the emergence of a growing desire worldwide to take positive actions to restore and protect the environment from the degrading effects of all forms of pollution air noise solid waste and water 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 exists 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 The principal intention of the Handbook of Environmental Engineering series is to help readers formulate answers to the last two 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 realization of the ever increasing complexity and interrelated nature of current environmental problems makes it imperative that intelligent planning of pollution abatement systems be undertaken

BioProducts Bhima R. Vijayendran, 2023-07-04 The book is focused on Bio Products derived from renewable resources processed by conventional catalytic thermochemical processes and or emerging bioprocessing techniques including fermentation and synthetic biology It highlights some of these developments from discovery lab feasibility scale up and eventual commercialization of interest and value in all the major sectors of the economy Industrial Water Treatment Process Technology Parimal Pal, 2017-03-31 Industrial Water Treatment Process Technology begins with a brief overview of the challenges in water resource management covering issues of plenty and scarcity spatial variation as well as water quality standards In this book the author includes a clear and rigorous exposition of the various water resource management approaches such as separation and purification end of discharge pipe zero discharge approach green process development flow management approach and preservation and control approach This coverage is followed by deeper discussion of

individual technologies and their applications Covers water treatment approaches including separation and purification end of discharge pipe zero discharge approach flow management approach and preservation and control approach Discusses water treatment process selection trouble shooting design operation and physico chemical and treatment Discusses industry specific water treatment processes

Proceedings of the Second International Conference on the Future of ASEAN (ICoFA) 2017 - Volume 2 Rizauddin Saian, Mohd Azwan Abbas, 2018-05-04 This book examines how business the social sciences science and technology will impact the future of ASEAN Following the ASEAN VISION 2020 it analyses the issues faced by ASEAN countries which are diverse while also positioning ASEAN as a competitive entity through partnerships On the 30th anniversary of ASEAN all ASEAN leaders agreed to the establishment of the ASEAN VISION 2020 which delineates the formation of a peaceful stable and dynamically developed region while maintaining a community of caring societies in Malaysia Indonesia Singapore Brunei Vietnam Thailand the Philippines Myanmar Laos and Cambodia In keeping with this aspiration Universiti Teknologi MARA Perlis took the initial steps to organise conferences and activities that highlight the role of the ASEAN region The Second International Conference on the Future of ASEAN ICoFA 2017 was organised by the Office of Academic Affairs Universiti Teknologi MARA Perlis to promote more comprehensive integration among ASEAN members This book divided into two volumes offers a useful guide for all those engaged in research on business the social sciences science and technology It will also benefit researchers worldwide who want to gain more knowledge about ASEAN countries

Unit Operations in Environmental Engineering Louis Theodore, R. Ryan Dupont, Kumar Ganesan, 2017-09-18 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich's 1961 classic work Unit Operations in Sanitary Engineering The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations the goal of this book is to present the subject from a strictly pragmatic introductory point of view particularly for those individuals involved with environmental engineering This book is concerned with unit operations fluid flow heat transfer and mass transfer Unit operations by definition are physical processes although there are some that include chemical and biological reactions The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operations equipment This is a definitive work on Unit Operations one of the most important subjects in environmental engineering today It is an excellent reference well written easily read and comprehensive I believe the book will serve well those working in engineering disciplines including those beyond just environmental and chemical engineering Bottom line A must for any technical library Kenneth J

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Effective Waste Management and Circular Economy Sadhan Kumar Ghosh,Sasmita Samanta,Harish Hirani,Carlos Roberto Vieira da Silva,2022-09-07 Effective Waste Management and Circular Economy Legislative Framework and Strategies is an invaluable resource for researchers policymakers implementers and PhD graduate and Under Graduate level students in universities and colleges analysing the legal framework strategies in waste management circular economy adoption use of mathematical and statistical modelling in setting waste management strategies sanitation and Hygiene in waste management While huge wastes are wasted by dumping there is potential of resource circulation by enforcing legislative framework to effective resource utilisation and creating business opportunities Circularity of resources in waste streams can contribute to a more secure sustainable and economically sound future through the followings Effective legal framework strategies and policy instruments Adoption of circular economy and recycling technologies Support of IoT and appropriate decision making and modelling Adoption of alternatives to plastics and other hazardous materials Economic feasibility as business case commercialisation generating employment This book addresses most of the above issues in a lucid manner by experts in the field from different countries which are helpful for the related stakeholders edited by experts in the field Sadhan Kumar Ghosh Professor at Jadavpur University internationally well known expert working in varied interdisciplinary fields including waste management having research collaboration in 40 countries Sasmita Samanta Pro Vice Chancellor KIIT Deemed to be University Bhubaneswar Odisha India having research experience in management academic administration Harish Hirani Director at CSIR CMERI Durgapur having wider fields of research in IIT Delhi with a number of research collaboration Carlos RV Silva Filho Director Presidente ABRELPE Sao Paulo SP Brazil Presidente International Solid Waste Association Netherlands has experience of working in number of international projects

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