

MICHAEL H. GERARDI



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Settleability Problems and Loss of Solids in the Activated Sludge Process Michael H. Gerardi, 2003-06-03 The activated sludge process is the most versatile commonly used wastewater treatment system in North America however many activated sludge processes frequently experience operational problems related to poor compaction or settleability of secondary solids and loss of secondary solids from the clarifier Eschewing the technical jargon and copious chemical equations found in the majority of wastewater studies Settleability Problems and Loss of Solids in the Activated Sludge Process speaks directly to plant operators showing them how to identify and solve common problems and achieve maximum efficiency Michael H Gerardi s hands on guide addresses the most common plant operational problems such as increased costs loss of treatment efficiency and permit violations Using numerous tables and illustrations Settleability Problems provides microscopic and analytical techniques for troubleshooting and identifying the conditions responsible for settleability problems and loss of solids It includes pictures of wet mounts and smears of acceptable and unacceptable microscopic conditions of the activated sludge and presents corrective measures for operational problems Chapters include Undesired Filamentous Growth Nutrient Deficient Floc Particles Denitrification Slug Discharge of Soluble cBOD Viscous Bulking or Zoogloeal Growth Production and Accumulation of Foam and Scum Volume II in the series Settleability Problems will prove to be of unparalleled value to wastewater treatment plant operators as well as students of wastewater microbiology Biology and Troubleshooting of Facultative Lagoons Michael H. Gerardi, 2015-02-18 Provides personnel a new understanding of how lagoon and fixed film sewage treatment systems work Tested in short course situations by the author over the last 20 years Directs the material in a practical manner at operators who are responsible for process control and troubleshooting Reduces the jargon chemical equations and kinetics that overwhelm most operators and laboratory technicians Provides necessary information for understanding biological and chemical conditions at the treatment process Troubleshooting the Sequencing Batch Reactor Michael H. Gerardi, 2011-01-11 The practical guide on what to do right when biological influences cause a sequencing batch reactor to go wrong This richly illustrated straightforward guide carries forth the legacy established by previous editions in the Wiley Wastewater Microbiology series by focusing attention on the mixed gathering of organisms cohabitating within a sequencing batching reactor SBR and the key roles their biology plays in this wastewater processing tank's function With a clear user friendly presentation of complex subject matter Troubleshooting the Sequence Batch Reactor first teaches plant operators how to differentiate the positive and expected organismal dynamics present in optimal SBR performance from the negative and damaging ones that create unhealthy sludge and a stoppage in SBR operations Next Troubleshooting the Sequence Batch Reactor delivers all the tools necessary to get an SBR back on track and running safely In this book you ll get Short course situations tested by the author for the past fifteen years Accessible material aimed at operators instead of design and consulting engineers Essential information for understanding biological

conditions such as aerobic anoxic and anaerobic fermentative at the treatment process Examination of the properties of protozoa single celled and metazoa multi celled organisms and their significance in wastewater treatment Devoid of overwhelming scientific jargon chemical equations and kinetics this book simplifies details to provide quick instruction for plant operators on how to make more informed day to day process control decisions how to troubleshoot confidently when SBR conditions become compromised and how to act decisively when the problem is ultimately identified Water Harvesting and Conservation Saeid Eslamian, Faezeh Eslamian, 2021-03-01 Water harvesting is gaining more and more recognition as a sustainable and resilient water supply options It is economically viable socially compatible and environmentally friendly Water harvesting has proven to be a robust solution to overcome or reduce water shortages all over the world It is important to understand how to apply this practice in a sustainable and effective way to make full use of its potential in a world increasingly threatened by water scarcity The Handbook of Water Harvesting and Conservation Basic Concepts and Fundamentals is the most comprehensive up to date and applied handbook on water harvesting and conservation yet published The book s 30 chapters written by 84 outstanding international experts from approximately 20 selected countries faced by drought explore critique and develop concepts and systems for water harvesting The editors bring together many perspectives into a synthesis that is both academically based and practical in its potential applications The Handbook of Water Harvesting and Conservation Basic Concepts and Fundamentals is an important tool for education research and technical works in the areas of soil water and watershed management and is highly useful for drought strategy planning flood management and developing techniques to adapt to climate change in urban agricultural forest and rangeland The Microbiology of Anaerobic Digesters Michael H. Gerardi, 2003-09-05 Anaerobic digestion is a biochemical areas degradation process that converts complex organic material such as animal manure into methane and other byproducts Part of the author's Wastewater Microbiology series Microbiology of Anareboic Digesters eschews technical jargon to deliver a practical how to guide for wastewater plant operators Wastewater Pathogens Michael H. Gerardi, Mel C. Zimmerman, 2004-10-28 A practical guide to wastewater pathogens The fourth volume in Wiley's Wastewater Microbiology series Wastewater Pathogens offers wastewater personnel a practical guide that is free of overly technical jargon Designed especially for operators the text provides straight facts on the biology of treatment as well as appropriate protective measures Coverage includes An overview of relevant history hazards and organisms Viruses bacteria and fungi Protozoa and helminthes Ectoparasites and rodents Aerosols foam and sludge Disease transmission and the body s defenses Removal inactivation and destruction of pathogens Hygiene measures protective equipment and immunizations Wastewater **Bacteria** Michael H. Gerardi, 2006-04-20 A practical guide to wastewater bacteria and the roles they perform in wastewater treatment Communicating material in a practical manner for operators and technicians who regulate and troubleshoot their wastewater treatment processes Wastewater Bacteria discusses the effective control and proper operation of aerobic

activated sludge and anaerobic anaerobic digesters biological treatment units to ensure that an adequate active and appropriate population of bacteria is present in each treatment unit It is a hands on guide to understanding the biology and biological conditions that occur at each treatment unit Avoiding unnecessary technical jargon and chemical equations Wastewater Bacteria the fifth book in the Wastewater Microbiology Series explores and explains Bacteria and the wastewater environment Enzymes and sludge production Nitrogen phosphorus and sulfur bacteria Floc formation and filamentous organisms Nitrification and denitrification Sulfate reduction fermentation and methane production Toxicity Foam and malodor production The goal of Wastewater Bacteria is to enable plant operators to achieve the twofold basic objectives of wastewater treatment to degrade organic wastes to a level where a significant dissolved oxygen demand is not exerted upon receiving waters and to remove nutrients to levels where photosynthetic organisms in receiving waters are limited in their growth This straightforward manual equips plant technicians to meet these objectives with essential information to understand the biological processes and organisms involved in wastewater treatment Environmental Engineering V Malgorzata Pawlowska, Lucjan Pawlowski, 2018-10-26 Poland like other post communist countries is undergoing a transformation into a capitalist system This transformation affects the country in many ways economic social psychological and also ecological Ecological problems are strongly connected with the political economic and psychological inheritance of the past as well as with changes in the post communist society In order to understand these problems it is necessary to consider the following issues the geographic situation of Poland the political transformations that occurred after World War II forced development of heavy industry combined with neglect of its effects on the environment and the economic problems The three main goals of Environmental Engineering V are I to assess the state of scientific research in various areas of environmental engineering II to evaluate organizational technical and technological progress in contributing to ecological security and III to determine the place of environmental engineering in sustainable development taking into account political and economic conditions Environmental Engineering V is of interest for academics engineers and professionals involved in environmental engineering seeking solutions for environmental problems in emerging new democracies especially those who plan to participate in numerous projects sponsored by the European Union Progress in Environmental Engineering Janusz Tomaszek, Piotr Koszelnik, 2015-03-25 Progress in Environmental Engineering contains theoretical and experimental contributions on water purification new concepts and methods of wastewater treatment and ecological problems in freshwater ecosystems The issues dealt with in the book include i Causes and control of activated sludge bulking and foaming Membrane-based Hybrid Processes for Wastewater Treatment Maulin P. Shah, Susana ii e use of new support material Rodriguez-Couto, 2021-05-27 Membrane Based Hybrid Processes for Wastewater Treatment analyzes and discusses the potential of membrane based hybrid processes for the treatment of complex industrial wastewater the recovery of valuable compounds and water reutilization In addition recent and future trends in membrane technology are highlighted Industrial

wastewater contains a large variety of compounds such as heavy metals salts and nutrients which makes its treatment challenging Thus the use of conventional water treatment methods is not always effective Membrane based hybrid processes have emerged as a promising technology to treat complex industrial wastewater Discusses the properties mechanisms advantages limitations and promising solutions of different types of membrane technologies Addresses the optimization of process parameters Describes the performance of different membranes Presents the potential of Nanotechnology to improve the treatment efficiency of wastewater treatment plants WWTPs Covers the application of membrane and membrane based hybrid treatment technologies for wastewater treatment Includes forward osmosis electrodialysis and diffusion dialysis Considers hybrid membrane systems expanded to cover zero liquid discharge salt recovery and removal of trace contaminants

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