

## Prentice Boom

Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse - Second Edition  
Human Acceleration of the Nitrogen Cycle  
Mathematical Modelling and Computer Simulation of Activated Sludge Systems  
Assessment of Treatment Plant Performance and Water Quality Data: A Guide for Students, Researchers and Practitioners  
Regenerative Sanitation  
Taste and Odour in Source and Drinking Water  
Reassembling Scholarly Communications  
*Faisal I. Hai Organisation for Economic Co-Operation and Development (OECD) Jacek Makinia Marcos von Sperling Thammarat Koottatep Tsair-Fuh Lin Martin Paul Eve*

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the mbr market continues to experience a massive growth the best practice in the field is constantly changing and unique quality requirements and management issues are regularly emerging the second edition of membrane biological reactors

theory modeling design management and applications to wastewater reuse comprehensively covers the salient features and emerging issues associated with the mbr technology the book provides thorough coverage starting from biological aspects and fundamentals of membranes via modeling and design concepts to practitioners perspective and good application examples in the second edition the chapters have been updated to cover the recently emerged issues particularly the book presents the current status of the technology including market drivers restraints and development trend process fundamentals both the biological and membrane components have received in depth coverage in the new edition a new chapter has been added to provide a stronger focus on reuse applications in general and the decisive role of mbr in the entire reuse chain the second edition also comes with a new chapter containing practical design problems to complement the concepts communicated throughout the book other distinguishing features of the new edition are coverage of novel developments and hybrid processes for specialised wastewaters energy efficiency and sustainability of the process aspects of mbr process automation and recent material on case studies the new edition is a valuable reference to the academic and professional community and suitable for undergraduate and postgraduate teaching in environmental engineering chemical engineering and biotechnology

this publication examines the risks associated with the release of excessive nitrogen into the environment climate change depletion of the ozone layer air pollution water pollution loss of biodiversity deterioration of soil quality the report also examines the uncertainty associated with the ability of nitrogen to move from one ecosystem to another and cause cascading effects in addition to better management of nitrogen risks at the local level there is a need to consider the global risks associated with the continued increase in nitrous oxide concentrations and to prevent excess nitrogen in all its forms by developing cost effective strategies for all its sources other than the reduction of nitrogen pollution this report

provides guidance on the use of nitrogen policy instruments and how to ensure coherence with objectives such as food security energy security and environmental objectives

mathematical modelling and computer simulation of activated sludge systems second edition provides from the process engineering perspective a comprehensive and up to date overview regarding various aspects of the mechanistic white box modelling and simulation of advanced activated sludge systems performing biological nutrient removal in the new edition of the book a special focus is given to nitrogen removal and the latest developments in modelling the innovative nitrogen removal processes furthermore a new section on micropollutant removal has been added the focus of modelling has been shifting in the last years to models that can describe the performance of a whole plant plant wide modelling the expanded part of this new edition introduces models describing the most important processes interrelated with the mainstream activated sludge systems as well as models describing the energy balance operating costs and environmental impact the complex process evaluation including minimization of energy consumption and carbon footprint is in line with the present and future wastewater treatment goals by combining a general introduction and a textbook this book serves both intermediate and more experienced model users both researchers and practitioners as a comprehensive guide to modelling and simulation studies the book can be used as a supplemental material at graduate and post graduate levels of wastewater engineering modelling courses

this book presents the basic principles for evaluating water quality and treatment plant performance in a clear innovative and didactic way using a combined approach that involves the interpretation of monitoring data associated with i the basic processes that take place in water bodies and in water and wastewater treatment plants and ii data management

and statistical calculations to allow a deep interpretation of the data this book is problem oriented and works from practice to theory covering most of the information you will need such as a obtaining flow data and working with the concept of loading b organizing sampling programmes and measurements c connecting laboratory analysis to data management e using numerical and graphical methods for describing monitoring data descriptive statistics f understanding and reporting removal efficiencies g recognizing symmetry and asymmetry in monitoring data normal and log normal distributions h evaluating compliance with targets and regulatory standards for effluents and water bodies i making comparisons with the monitoring data tests of hypothesis j understanding the relationship between monitoring variables correlation and regression analysis k making water and mass balances l understanding the different loading rates applied to treatment units m learning the principles of reaction kinetics and reactor hydraulics and n performing calibration and verification of models the major concepts are illustrated by 92 fully worked out examples which are supported by 75 freely downloadable excel spreadsheets each chapter concludes with a checklist for your report if you are a student researcher or practitioner planning to use or already using treatment plant and water quality monitoring data then this book is for you 75 excel spreadsheets are available to download

this book proposes regenerative sanitation as the next era of sanitation management and attempts to provide a foundation for the study of sanitation on the premise that sanitation is a complex and dynamic system that comprises of social ecological technological and resource systems the preconception is that sanitation will deliver maximal benefits to society only when there exists a cyclical integration of the three subsystems to enable appropriate linkages between technological design and the delivery platform so as to achieve optimal and sustained sani solutions it also calls for the rethinking of sanitation to change the narrative towards more progressive trajectories such as resource recovery and

reuse rather than just amelioration it explores the contributions to food security livelihood support urban regeneration rural development and even local economies a new paradigm theory and ten principles for ensuring practical and effective sanitation solutions and management is presented in addition is a unique conceptual framework applicable to both developed and developing countries and to all stages processes and cycles of delivering sanitation solutions that could critically evaluate analyse and provide credible adequate and appropriate sanitation solutions all of which culminates in a strategic and practical application platform called sanitation 4.0 that advocates for total rejuvenation and comprehensive overhaul with eight key strategic considerations for the implementation regenerative sanitation a new paradigm for sanitation 4.0 is inter and trans disciplinary and encourages collaboration between engineers scientists technologists social scientists and others to provide effective and practical user centred solutions it includes relevant case studies examples exercise and future research recommendations it is written as both a textbook for researchers and students as well as a practitioners guide for policymakers and professionals

this book provides an updated evaluation of the characterization and management of taste and odour in source and drinking waters authored by international experts from the iwa specialist group on off flavours in the aquatic environment the book represents an important resource that synthesizes current knowledge on the origins mitigation and management of aquatic taste and odour problems the material provides new knowledge for an increasing widespread degradation of source waters and global demand for high quality potable water key topics include early warning detection and source tracking chemical sensory and molecular diagnosis treatment options for common odorants and minerals source management modelling and risk assessment and future research directions taste and odour in source and drinking water is directed towards a wide readership of scientists engineers technical operators and managers and presents both practical

and theoretical material including an updated version of the benchmark drinking water taste and odour wheel and a new biological wheel to provide a practical and informative tool for the initial diagnosis of the chemical and biological sources of aquatic toxicology.

a range of perspectives on the complex political philosophical and pragmatic implications of opening research and scholarship through digital technologies the open access movement proposes to remove price and permission barriers for accessing peer reviewed research work to use the power of the internet to duplicate material at an infinitesimal cost per copy in this volume contributors show that open access does not exist in a technological vacuum there are complex political philosophical and pragmatic implications for opening research through digital technologies the contributors examine open access across spans of colonial legacies knowledge frameworks publics and politics archives and digital preservation infrastructures and platforms and global communities

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