

# Logan Edwards

RiversMembrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse - Second EditionA-B processes:  
Towards Energy Self-sufficient Municipal Wastewater TreatmentHealth Sciences LibrarianshipPragmatic Randomized Clinical TrialsThe Future of Coral Reefs  
Subject to Rapid Climate Change: Lessons from Natural Extreme EnvironmentsCoronary Artery Disease: Therapeutics and Drug DiscoveryDrawing Down  
N2O to Protect Climate and the Ozone LayerThe British National Bibliography Paul Raven Faisal I. Hai Yu Liu M. Sandra Wood Cynthia J. Girman Emma  
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throughout british history rivers have been of profound economic social and cultural importance yet as we see with increasing frequency they have the potential to wreak great destruction this book describes the natural and not so natural changes that have affected british rivers since the last ice age and looks at the many plants and animals that live along above and within them detailed case studies of the meon dee and endrick illustrate the incredibly varied nature of our river ecosystems and the natural and human factors that make each one different written by two widely respected river ecologists the book looks not only at rivers as they were and are but also at how they can be managed and cared for full of interesting facts and stunning images rivers is essential reading for anyone professionally involved in rivers and for the naturalist conservationist and layman alike it is the one book you need to understand this singularly important and often contentious feature of the british landscape

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

the principle of the conventional activated sludge cas for municipal wastewater treatment is primarily based on biological oxidation by which organic matters are converted to biomass and carbon dioxide after more than 100 years successful application the cas process is receiving increasing critiques on its high energy consumption and excessive sludge generation currently almost all municipal wastewater treatment plants with the cas as a core process are being operated in an energy negative fashion to tackle such challenging situations there is a need to re examine the present wastewater treatment philosophy by developing and adopting novel process configurations and emerging technologies the solutions going forward should rely on the ways to improve direct energy recovery from wastewater while minimizing in plant energy consumption this book begins with a critical overview of the energy situation and challenges in current municipal wastewater treatment plants showing the necessity of the paradigm shift from removal to recovery in terms of energy and resource as such the concept of a b process is discussed in detail in the book it appears that various a b process configurations are able to provide possible engineering solutions in which a stage is primarily designed for cod capture with the aim for direct anaerobic treatment without producing excessive biosludge while b stage is designated for nitrogen removal making the wastewater treatment energy self sustainable is obviously of global significance and eventually may become a game changer for the global market of the municipal wastewater reclamation technology the principal audiences include practitioners professionals university researchers undergraduate and postgraduate students who are interested and specialized in municipal wastewater treatment and process design environmental engineering and environmental biotechnology

this comprehensive textbook of health sciences librarianship provides the library student and new librarian with the background and skills necessary to handle day to day activities and provide quality services in a health sciences library or a more general library serving students and practitioners in the

health professions the book has 16 chapters each authored by an experienced medical librarian and is organized logically into 4 sections the profession collection services user services and administrative services each chapter contains photographs figures tables and charts illustrating the essential concepts introduced overseen by a 3 member editorial board of leading professors in medical librarianship programs this authoritative text provides students beginning and experienced librarians with a comprehensive overview of state of the art medical librarianship

pragmatic randomized clinical trials using primary data collection and electronic health records addresses the practical aspects and challenges of the design implementation and dissemination of pragmatic randomized trials also sometimes referred to as practical or hybrid randomized trials while less restrictive and more generalizable than traditional randomized controlled trials such trials have specific challenges which are addressed in this book the book contains chapters encompassing common designs along with advantages and limitations of such designs analytic aspects in planning trials and estimating sample size and how to use patient partners to help design and operationalize pragmatic randomized trials pragmatic trials conducted using primary data collection and trials embedded in electronic health records including electronic medical records and administrative insurance claims are addressed this comprehensive resource is valuable not only for pharmacoepidemiologists biostatisticians and clinical researchers but also across the biomedical field for those who are interested in applying pragmatic randomized clinical trials in their research addresses typical designs and challenges of pragmatic randomized clinical trials prcts encompasses analytic aspects of such trials discusses real cases on operational challenges in launching and conducting prcts in electronic health records

examination of corals and reef associated organisms which endure in extreme coral reef environments is challenging our understanding of the conditions that organisms can survive under by studying individuals naturally adapted to unfavorable conditions we begin to better understand the important traits required to survive rapid environmental and climate change this research topic comprising reviews and original research articles demonstrates the current state of knowledge regarding the diversity of extreme coral habitats the species that have been studied and the knowledge to date on the mechanisms traits and trade offs that have facilitated survival

this book provides an overview of the etiology of coronary artery disease and focuses on the main therapies and drug interventions currently available it highlights drug pharmacology and therapeutic challenges with a special emphasis on the underlying principles of available therapeutics and the on going development of drugs for coronary artery disease the book is divided into eight chapters the first of which describes the classical mechanism of coronary artery disease and its clinical presentations chapter 2 lists the principles of and related evidence on the prevention and treatment of coronary artery disease this includes diet and lifestyle management and guidelines for the treatment of acute coronary syndrome and stable coronary artery disease in turn

chapter 3 describes revascularization treatments covering percutaneous coronary interventions coronary artery bypass grafts and thrombolysis this chapter also addresses the main therapeutic challenges the following chapters provide an overview of three major categories of coronary artery disease drugs which target thrombosis chapter 4 lipid metabolism chapter 5 and hypertension chapter 6 heart failure constitutes the major health burden in the late stage of coronary artery disease accordingly current heart failure therapeutics and related drug pharmacology are described in chapter 7 in closing chapter 8 provides a summary of on going clinical trials for coronary artery disease drug development and discusses a number of promising areas in which intensive research into new therapeutics is being pursued given its scope the book will be of interest to clinicians medical students and research scientists as well as to pharmaceutical professionals who are seeking new therapies and drugs for coronary artery disease and related disorders

this report addresses the benefits of drawing down nitrous oxide n<sub>2</sub>o emissions n<sub>2</sub>o is now the most significant ozone depleting substance emission and the third most important greenhouse gas released into the atmosphere global anthropogenic n<sub>2</sub>o emissions are rapidly increasing and are expected to almost double by 2050 unless mitigation action is accelerated the continued build up of n<sub>2</sub>o in the atmosphere will continue to deplete the stratospheric ozone layer and in so doing will to a degree undermine the achievements of the montreal protocol the build up of n<sub>2</sub>o will also make it more difficult to achieve climate targets two thirds of current anthropogenic n<sub>2</sub>o emissions originate from agriculture and these can be reduced by boosting nitrogen use efficiency especially by making the use of fertilizer manure and feed more efficient improving nitrogen use efficiency can be accomplished through a wide variety of feasible options

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