

Produced Water

Algal Technologies for Wastewater Treatment and Resource Recovery
Osmotically Driven Membrane Processes
Wastewater and Biosolids Management
Biofouling of Membrane Systems
Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse - Second Edition
Handbook on Good Treaty Practice
Biotechnological Innovations for Environmental Bioremediation
Linkages of Sustainability
Coal and Coalbed Gas
Journal of Soil and Water Conservation
Africa Analysis
Golfdom
The Wisconsin Environmental Education Board ...
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Wallace's Farmer Event Solutions
Land Grabbing and Home Country Development
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From Embryology to Evo-devo
Raul Muñoz Muharrem Ince Ioannis K Kalavrouziotis Szilárd
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over 80 of globally produced wastewater receives little or no treatment before it is disposed into the environment therefore it is urgent to develop new wastewater treatment technologies that are sustainable in the broad sense of the word i e not only produce high quality effluents but also minimise energy expenses recover energy and nutrients and apply technology that is appropriate in relation to the availability of skilled personnel this book compiles the main outcomes of recent efforts to improve the design of waste stabilisation ponds and confirms the superior performance of high rate algal ponds as a result of process intensification anaerobic digestion devoted to

biogas production continues to be the preferred strategy for the energy valorisation of the algal biomass co digestion with multiple high c n ratio substrates gathering significant attention over the past years the potential of algal biomass as a biosorbent for heavy metal removal cu ni f maintains its share in the research field of water bioremediation while research on nutrient removal has focused on providing new insights on the mechanism of nitrogen and phosphorus removal from wastewater in algal bacterial systems finally it is worth noticing that breakthroughs in complementary fields of research such as nanotechnology or lighting technology are gradually being implemented in algal biotechnology with new products such as nanoparticles for water disinfection or photobioreactors illuminated by low intensity led panels in focus a book series that showcases the latest accomplishments in water research each book focuses on a specialist area with papers from top experts in the field it aims to be a vehicle for in depth understanding and inspire further conversations in the sector

osmotically driven membrane processes provides an overview of membrane systems and separation processes recent trends in membranes and membrane processes and advancements in osmotically driven membrane systems it focuses on recent advances in monitoring and controlling wastewater using membrane technologies it explains and clarifies important research studies as well as discusses advancements in the field of organic inorganic pollution

the second edition of wastewater and biosolids management has 40 new material including a comprehensive study guide and one new chapter entitled the contribution of decision support system dss to the approach of safe wastewater and biosolid reuse the study guide contains the title of the chapter the purpose the expected results key concepts study plan additional bibliography and a set of self assessment exercises and activities the book covers a wide range of current new and emerging topics in wastewater and biosolids it addresses the theoretical and practical aspect of the reuse and looks to advance our knowledge on wastewater reuse and its application in agricultural production the book aims to present existing modern information about wastewater reuse management based on earlier literature on the one hand and recent research developments many of which have not so far been implemented into actual practice on the other it combines the practical and theoretical knowledge about wastewater and biosolids management and in this sense it is useful for researchers students academics as well as professionals

because of the uneven distribution of fresh water in time and space and the increasing human population a large number of regions are experiencing water scarcity and stress membrane based desalination technologies like reverse osmosis have the potential to solve the fresh water crisis in coastal areas however in many cases

membrane performance is restricted by biofouling biofouling of membrane systems gives a comprehensive overview on the state of the art strategies to control biofouling in spiral wound reverse osmosis membrane systems and point to possible future research directions despite the fact that much research and development has been done to overcome biofouling in spiral wound membrane systems used for water treatment biofouling is still a major practical problem causing performance decline and increased energy demand biofouling of membrane systems is divided into three sections including modelling and numerical analysis non destructive characterization and feed spacer geometry optimization it focuses on the development of biomass in the feed channel of the membrane module and its effect on pressure drop and hydrodynamics this book can be used to develop an integral strategy to control biofouling in spiral wound membrane systems an overview of several potential complementary approaches to solve biofouling is given and an integrated approach for biofouling control and feed spacer design is proposed

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

aims to provide a useful analytical tool and practical guidance on good treaty practice it will be of interest to those working with treaties and treaty procedures in governments international organisations and legal practice as well as legal academics

and students wishing to gain insight into the realities of treaty practice

this edited book focuses on the application and implementation of bioremediation and other strategies to create a sustainable and healthy environment it provides a collection of approaches to environmental biotechnology for wastewater treatment removal of soil heavy metals degradation of pesticides removal of dyes waste management and microbial conversion of environmental pollutants this book brings to the fore contributions of certain globally important environmental biotechnologist bioremediation is a popular branch of biotechnology that involves the use of living organisms such as microorganisms microbial remediation bacteria fungus mycoremediation and plants phytoremediation to bind extract and clean up contaminants pollutants and toxins from soil groundwater and other environments this book is of interest to researchers scientists and academic faculty in environmental sciences also it serves as additional reading and reference material for undergraduate and graduate students as well as postdocs in environmental agriculture ecology and soil sciences national and international policy makers will also find valuable information from this book

in this book experts engage in an extended dialogue arguing for a comprehensive view of sustainability they emphasize the constraints imposed by the relationships among the components for example how the need for clean easily accessible water intersects with the need for the energy required to provide it this book urges a transformation in the way we view sustainability a transformation that is necessary if we are to plan responsibly for a more sustainable world book jacket

coal and coalbed gas future directions and opportunities second edition introduces the latest in coal geology research and the engineering of gas extraction importantly the second edition examines how over the last 10 years research has both changed focus and where it is conducted this shift essentially depicts a tale of two worlds one half western europe north america moving away from coal and coalbed gas research and production towards cleaner energy resources and the other half asia pacific region eastern europe south america increasing both research and usage of coal these changes are marked by a precipitous fall in coalbed gas production in north america however at the same time there has been a significant rise in coal and coalbed gas production in australia china and india the driver for higher production and its associated research is a quest for affordable energy and economic security that a large resource base brings to any country like australia s first large scale coalbed gas to liquid natural gas projects supplying the demand for cleaner burning lng to the asian pacific region since the last edition of this book global climate change policies have more forcibly emphasized the impact of methane from coal mines and placed these

emissions equal to or even more harmful than co2 emissions from fossil fuels in general governmental policies have prioritized capture use and storage of co2 burning coal in new highly efficient low emission power plants and gas pre drainage of coal mines the organization for economic cooperation and development oecd countries and china are also introducing new research into alternative non fuel uses for coal such as carbon fibers nanocarbons graphene soil amendments and as an unconventional ore for critical elements new to this edition each chapter is substantially changed from the 1st edition including expanded and new literature citations and reviews important new data and information new features and materials as well as re organized and re designed themes importantly three new chapters cover global coal endowment and gas potential groundwater systems related to coalbed gas production and biogenic gas generation as well as the changing landscape of coal and coalbed gas influenced by global climate change and net zero carbon greenhouse gas emissions foreword when i reviewed the first edition of this book my initial thought was do we need another book on coal geology and then i read it and realised yes we need this book and my students downloaded copies as soon as it was available so now we come to 2023 and a lot has happened in the past decade for a different reason we might ask if we still need this book or even coal geoscientists and engineers as the world aims for rapid decarbonisation of the energy sector and a reduction of coal as a feedstock for industrial resources like steel manufacture

vol 25 no 1 contains the society s lincoln chapter s resource conservation glossary

a fortnightly bulletin on financial and political trends

overview of major global and regional environmental issues and development that shaped policy decisions and actions during the course of the year emerging challenges new findings presenting scientific progress made in the year that may assist society in recognizing and better understanding emerging environmental issues and help decision makers in designing adequate responses geo indicators highlighting some of the key global and regional environmental issues and trends that have been identified in geo reports

since 2008 foreign land acquisitions have attracted international attention under the term land grabbing illustrated by rich and nuanced empirical accounts of forty chinese and british investment projects in sub saharan africa ariane goetz explains the phenomenon of land grabbing from the perspective of two investor countries she reflects on chinese and british public policy state society relations national developmental contexts ideologies and international relations and thereby gives insights into the political economies that enable these investments as well as the

development ambitions and institutionalized paradigms of which they form a part historians philosophers sociologists and biologists explore the history of the idea that embryological development and evolution are linked

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