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WASTEWATER TREATMENT AND REUSE, THEORY AND DESIGN EXAMPLES, VOLUME 1

PRINCIPLES AND BASIC TREATMENT

CRC Press This book will present the theory involved in wastewater treatment processes, define the important design parameters involved, and provide typical values of these parameters for ready reference; and also provide numerical applications and step-by-step calculation procedures in solved examples. These examples and solutions will help enhance the readers' comprehension and deeper understanding of the basic concepts, and can be applied by plant designers to design various components of the treatment facilities. It will also examine the actual calculation steps in numerical examples, focusing on practical application of theory and principles into process and water treatment facility design.

WASTEWATER TREATMENT AND REUSE THEORY AND DESIGN EXAMPLES, VOLUME 2:

POST-TREATMENT, REUSE, AND DISPOSAL

CRC Press This book will present the theory involved in wastewater treatment processes, define the important design parameters involved, and provide typical values of these parameters for ready reference; and also provide numerical applications and step-by-step calculation procedures in solved examples. These examples and solutions will help enhance the readers' comprehension and deeper understanding of the basic concepts, and can be applied by plant designers to design various components of the treatment facilities. It will also examine the actual calculation steps in numerical examples, focusing on practical application of theory and principles into process and water treatment facility design.

MODULAR SYSTEMS FOR ENERGY USAGE MANAGEMENT

CRC Press "...[a] very unique book that integrates benefits of modular systems for enhanced sustainability to meet the global challenges of rapid and sometimes uncontrolled industrialization in the 21st century."—Pinakin Patel, T2M Global This book examines the role of the modular approach for the back end of the energy industry—energy usage management. It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency, which are preludes to the prudent use of energy. Since energy consumption is conventionally broken down into four sectors—residential, transportation, industrial, and commercial—the discussions on energy usage management are also broken down into these four sectors in the book. The book examines the use of modular systems for five application areas that cover the sectors described above: buildings, vehicles, computers and electrical/electronic products, district heating, and wastewater treatment and desalination. This book also discusses the use of a modular approach for energy storage and transportation. Finally, it describes how the modular approach facilitates bottom-up, top-down, and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives. Aimed at industry professionals and researchers involved in the energy industry, this book illustrates in detail, with the help of concrete industrial examples, how a modular approach can facilitate management of energy usage.

FOREVER CHEMICALS

ENVIRONMENTAL, ECONOMIC, AND SOCIAL EQUITY CONCERNS WITH PFAS IN THE ENVIRONMENT

CRC Press *Forever Chemicals: Environmental, Economic, and Social Equity Concerns with PFAS in the Environment* provides the reader with an understanding of the complex and interwoven issues associated with per- and polyfluorinated substances (PFAS) in our environment. The chapters provide in-depth perspective into various issues, including health, regulation, detection, clean-up strategies and technologies, and more. Taken together or as the reader's interests lead them, the variety of topics covered in the book present a balanced perspective on this complex topic. It will address the current state of PFAS and where indicators are pointing for future developments. The book is also a deeper investigation of the regulatory challenges, analytical hurdles, and toxicological progress to date for the suite of PFAS chemicals. Features Explains the trends that will affect future policy and regulatory decisions Looks holistically at 4000+ PFAS chemicals Includes PFAS risk assessments at contaminated sites and biomonitoring insights Provides in-depth discussions on remediation technologies Illustrates quality and diversified content Provides a balanced perspective on this complex topic

MICROBIAL BIOMASS PROCESS TECHNOLOGIES AND MANAGEMENT

Springer This book describes how microbes can be used as effective and sustainable resources to meet the current challenge of finding suitable and economical solutions for biopharmaceuticals, enzymes, food additives,

nutraceuticals, value added biochemicals and microbial fuels, and discusses various aspects of microbial regulatory activity and its applications. It particularly focuses on the design, layout and other relevant issues in industrial microbe applications. Moreover, it discusses the entire microbial-product supply chain, from manufacturing sites to end users, both in domestic and international markets, providing insights into the global marketing of microbes and microbial biomass-derived products. Further, it includes topics concerning the effective production and utilization of eco-friendly biotechnology industries. It offers a valuable, ready-to-use guide for technologists and policymakers developing new biotechnologies.

INTENSIFYING ACTIVATED SLUDGE USING MEDIA-SUPPORTED BIOFILMS

CRC Press *Intensifying Activated Sludge Using Media-Supported Biofilms* will be of interest to practicing wastewater treatment process designers, along with those seeking more compact and energy-efficient wastewater treatment options. The advantages of Moving Bed Biological Reactor (MBBR)-based hybrid processes are now well-established in practice, leading to their increased use in the field. Membrane Aerated Biofilm Reactor (MABR)-based hybrid processes are much newer and offer further systematic process and energy advantages. This book examines the evolution of hybrid technologies as well as the potential for continued improvement of biological wastewater treatment techniques. Features: Reviews current approaches for intensifying biological wastewater treatment processes and their mechanistic bases. Examines hybrid suspended growth/biofilm-based wastewater treatment processes, including the newly-developed MABR-based processes, and their unique dynamic performance characteristics. Presents a novel method for characterizing the performance and process intensification advantages of hybrid processes. Provides guidance for simulating the performance of hybrid processes, including oxygen transfer in MABR hybrid processes.

PRINCIPLES OF MEMBRANE BIOREACTORS FOR WASTEWATER TREATMENT

CRC Press *Principles of Membrane Bioreactors for Wastewater Treatment* covers the basic principles of membrane bioreactor (MBR) technology, including biological treatment, membrane filtration, and MBR applications. The book discusses concrete principles, appropriate design, and operational aspects. It covers a wide variety of MBR topics, including filtration theory, membrane materials and geometry, fouling phenomena and properties, and strategies for minimizing fouling. Also covered are the practical aspects such as operation and maintenance. Case studies and examples in the book help readers understand the basic concepts and principles clearly, while problems presented help advance relevant theories more deeply. Readers will find this book a helpful resource to understand the state of the art in MBR technology.

FROM COMPETITION TO COLLABORATION

HOW LEADERS CULTIVATE PARTNERSHIPS TO DRIVE VALUE AND TRANSFORM HEALTH

"The role that leaders play in aligning organizations toward the common goal of keeping the population healthy is at the center of this book. Because such a focus is critical in dealing with the various forces that have the potential to push things in the wrong direction, we are seeking to actively encourage connections and dialogue across sectors and among stakeholders. We will espouse an ecosystem view and demonstrate that, done well, it can help make some very significant differences in overall population health--in the right direction. In this book, we offer an introduction to and explanation of our framework--our health ecosystem leadership model (HELM). This model has been developed over the past few years and is based on what we have learned from our work with health industry leaders who have been the pioneers of an ecosystem approach. It is their hard-won successes that have driven our learning. These leaders foster what we refer to as an ecosystem mind-set--an understanding of the importance of bringing together traditionally disparate organizations from the different health sectors to create shared, innovative health solutions. Throughout the book, you will see quotes from participants of personal interviews we conducted with leaders who provide great examples of ecosystem leadership in action. They collectively demonstrate how they have sought to implement the solutions we advocate and help demonstrate our model"--

GOOD DESIGN PRACTICES FOR GMP PHARMACEUTICAL FACILITIES

CRC Press This revised publication serves as a handy and current reference for professionals engaged in planning, designing, building, validating and maintaining modern cGMP pharmaceutical manufacturing facilities in the U.S. and internationally. The new edition expands on facility planning, with a focus on the ever-growing need to modify existing legacy facilities, and on current trends in pharmaceutical manufacturing which include strategies for sustainability and LEED building ratings. All chapters have been re-examined with a fresh outlook on current good design practices.

BIOENERGY

BIOMASS TO BIOFUELS AND WASTE TO ENERGY

Academic Press Bioenergy: Biomass to Biofuels and Waste to Energy, 2nd Edition presents a complete overview of the bioenergy value chain, from feedstock to end products. It examines current and emerging feedstocks and advanced processes and technologies enabling the development of all possible alternative energy sources. Divided into seven parts, bioenergy gives thorough consideration to topics such as feedstocks, biomass production and utilization, life-cycle analysis, energy return on invested, integrated sustainability assessments, conversions technologies, biofuels economics, business, and policy. In addition, contributions from leading industry professionals and academics, augmented by related service-learning case studies and quizzes, provide readers with a comprehensive resource that connect theory to real-world implementation. Bioenergy: Biomass to Biofuels and Waste to Energy, 2nd

Edition provides engineers, researchers, undergraduate and graduate students, and business professionals in the bioenergy field with valuable, practical information that can be applied to implementing renewable energy projects, choosing among competing feedstocks, technologies, and products. It also serves as a basic resource for civic leaders, economic development professionals, farmers, investors, fleet managers, and reporters interested in an organized introduction to the language, feedstocks, technologies, and products in the biobased renewable energy world. • Includes current and renewed subject matter, project case studies from real world, and topic-specific sections on the impacts of biomass use for energy production from all sorts of biomass feedstocks including organic waste of all kinds. • Provides a comprehensive overview and in-depth technical information of all possible bioenergy resources: solid (wood energy, grass energy, waste, and other biomass), liquid (biodiesel, algae biofuel, ethanol, waste to oils, etc.), and gaseous/electric (biogas, syngas, biopower, RNG), and cutting-edge topics such as advanced fuels. • Integrates current state of art coverage on feedstocks, cost-effective conversion processes, biofuels economic analysis, environmental policy, and triple bottom line. • Features quizzes for each section derived from the implementation of actual hands-on biofuel projects as part of service learning.

MEMBRANE BIOREACTOR PROCESSES

PRINCIPLES AND APPLICATIONS

CRC Press Grasp the Essential Principles of Membrane Bioreactor Processes Evolved from the conventional activated sludge (CAS) process, membrane bioreactor (MBR) processes have become the next-generation solution for municipal and industrial wastewater treatment and recycle. Membrane Bioreactor Processes: Principles and Applications explores nearly all the theoretical and practical aspects of membrane bioreactor technologies. Using the author's expertise obtained from academia and industry, this book provides the crucial details on MBR technology that that you need to know. The book details the theoretical and practical backgrounds of current practices involved with membrane module design, biological and membrane system design, system optimization, and system operation. Outlines the State of the Art of the Membrane Bioreactor Technology The text discusses the fundamentals of membrane filtration, emphasizing the principles of submerged membrane filtration. It also explores the complex interaction among key design and operating parameters, offers comprehensive explanations on the interconnectivity between biological and membrane systems, and covers new findings discovered in recent years. This book clearly explains how small-scale systems perform differently from larger-scale systems and its implications in data interpretation. Using this book as a platform, the technology can be developed further and quickly applied in future processes.

DIRECTORY OF CORPORATE COUNSEL

FALL 2021 EDITION (2 VOLUMES)

Wolters Kluwer Law & Business The Directory of Corporate Counsel, Fall 2021

Edition remains the only comprehensive source for information on the corporate law departments and practitioners of the companies of the United States and Canada. Profiling over 30,000 attorneys and more than 12,000 companies, it supplies complete, uniform listings compiled through a major research effort, including information on company organization, department structure and hierarchy, and the background and specialties of the attorneys. This newly revised two volume edition is easier to use than ever before and includes five quick-search indexes to simplify your search: - Corporations and Organizations Index - Geographic Index - Attorney Index Law - School Alumni Index - Nonprofit Organizations Index Previous Edition: Directory of Corporate Counsel, Spring 2021 Edition, ISBN 9781543836479

GLOBAL MARITIME TRANSPORT AND BALLAST WATER MANAGEMENT

ISSUES AND SOLUTIONS

Springer Ballast water management is a complex subject with many issues and still limited knowledge, however, it is building up on new scientific researches and practical experience. The Ballast Water Management Convention is the global legal framework which still needs to be implemented. This book brings together a long-term and newest experience from practical work, scientific research, administration and policy involvements, offering unique insights to readers who would like to learn more about this subject. It also provides recommendations and practical solutions especially important for professionals, administrations and organizations in the process of the implementation of this Ballast Water Management Convention.

WASTEWATER SLUDGE PROCESSING

John Wiley & Sons Reap the benefits of sludge The processing of wastewater sludge for use or disposal has been a continuing challenge for municipal agencies. Yet, when sludge is properly processed, the resulting nutrient-rich product--biosolids--can be a valuable resource for agriculture and other uses. Wastewater Sludge Processing brings together a wide body of knowledge from the field to examine how to effectively process sludge to reap its benefits, yet protect public health. Presented in a format useful as both a reference for practicing environmental engineers and a textbook for graduate students, this book discusses unit operations used for processing sludge and the available methods for final disposition of the processed product. Topics discussed include sludge quantities and characteristics, thickening and dewatering, aerobic and anaerobic digestion, alkaline stabilization, composting, thermal drying and incineration, energy consumption, and the beneficial use of biosolids. COMPREHENSIVE IN ITS COVERAGE, THE TEXT: * Describes new and emerging technologies as well as international methods * Compares different types of sludge processing methods * Explains both municipal and industrial treatment technologies Written by authors with decades of experience in the field, Wastewater Sludge Processing is an invaluable tool for anyone planning, designing, and implementing municipal wastewater sludge management projects.

ENGINEERING AGRICULTURE AT TEXAS A&M

THE FIRST HUNDRED YEARS

Texas A&M University Press The abundance of agricultural production enjoyed in the United States is the result of a federal-state partnership that relies on land grant universities to respond to the needs of society through research, invention, problem-solving, outreach, and applied science and engineering. The Biological and Agricultural Engineering Department at Texas A&M University, established in 1915, has been an important part of that effort. Over the hundred years of its existence, it has successfully tackled the challenges of mechanization, electrification, irrigation, harvest, transport, and more to the benefit of agriculture in Texas, the United States, and the world. In this book, historian Henry Dethloff and current department chair Stephen Searcy explore the history of the department—its people, its activity, its growth—and project the department’s future for its second century, when its primary task will be to sustainably help meet the needs of a predicted 9.6 billion Earth residents and to recognize that societal food concerns are focused more and more on sustainable production and human health.

THE PRICE OF THIRST

GLOBAL WATER INEQUALITY AND THE COMING CHAOS

U of Minnesota Press “There’s Money in Thirst,” reads a headline in the New York Times. The CEO of Nestlé, purveyor of bottled water, heartily agrees. It is important to give water a market value, he says in a promotional video, so “we’re all aware that it has a price.” But for those who have no access to clean water, a fifth of the world’s population, the price is thirst. This is the frightening landscape that Karen Piper conducts us through in *The Price of Thirst*—one where thirst is political, drought is a business opportunity, and more and more of our most necessary natural resource is controlled by multinational corporations. In visits to the hot spots of water scarcity and the hotshots in water finance, Piper shows us what happens when global businesses with mafia-like powers buy up the water supply and turn off the taps of people who cannot pay: border disputes between Iraq and Turkey, a “revolution of the thirsty” in Egypt, street fights in Greece, an apartheid of water rights in South Africa. *The Price of Thirst* takes us to Chile, the first nation to privatize 100 percent of its water supplies, creating a crushing monopoly instead of a thriving free market in water; to New Delhi, where the sacred waters of the Ganges are being diverted to a private water treatment plant, fomenting unrest; and to Iraq, where the U.S.-mandated privatization of water resources destroyed by our military is further destabilizing the volatile region. And in our own backyard, where these same corporations are quietly buying up water supplies, Piper reveals how “water banking” is drying up California farms in favor of urban sprawl and private towns. The product of seven years of investigation across six continents and a dozen countries, and scores of interviews with CEOs, activists, environmentalists, and climate change specialists, *The Price of Thirst* paints a harrowing picture of a world out of balance, with the distance between the haves and have-nots of water inexorably widening

and the coming crisis moving ever closer.

A MULTIDISCIPLINARY INTRODUCTION TO DESALINATION

CRC Press Although more than 70% of the globe is covered with water, only a small portion is suitable for direct human use, making the scarcity of freshwater one of our planet's most serious challenges. In this context "desalination", defined as "the removal of salt from water", is one of the possible solutions for overcoming our planet's municipal and industrial thirst. By drawing upon the authoritative expertise of a remarkable team of international authors, this book aims to provide an encompassing and "multidisciplinary" introduction to various aspects of desalination. The forte of this publication is that it does not overtly focus on a particular sub-topic of desalination, but rather addresses the topic as a whole. In other words, the unique assortment of reader-friendly chapters is designed to strike a delicate balance between the technical and non-technical. The book is divided into five general sections: The first section presents an overview of water scarcity, followed by a review of integrated water management and the alternatives to desalination. The fundamentals of desalination are provided, including simple water chemistry; The second section covers the conventional technologies of today, including thermal and membrane desalination processes. The topics of pre- and post- treatment are given due credit, as no desalination plant can operate without them; The third section reviews the history of how desalination technologies originated, including a review of today's R&D activities and cutting edge research. The processes and engineering applied for membrane manufacturing are also presented; Section four is concerned with energy and environmental issues, including the application of renewable and nuclear energy, minimization of energy usage and the water-energy-nexus, brine management, and environmental impacts; Finally, section five covers the social and commercial issues, ranging from rural desalination, to the politics of desalination. Desalination costs and feasibility are presented, as well as issues in business development and the future market prospects. Effectively, A Multidisciplinary Introduction to Desalination aims to be a holistic go-to-compendium for anyone seeking a balanced understanding of the various facets of desalination

DESALINATION PROJECT COST ESTIMATING AND MANAGEMENT

CRC Press Desalination Project Cost Estimating and Management examines the key issues associated with the estimation of costs for desalination plants. It covers all aspects of desalination project cost estimating and management: direct and indirect capital costs, fixed and variable operation and maintenance costs, and total costs for water production. In addition, it provides a detailed overview of the factors that influence project costs and discusses the technological and project delivery methods to control and optimize project costs. The book includes cost curves for the most commonly used seawater desalination facilities and numeric examples illustrating how to prepare a budgetary cost estimate for a typical desalination project. Features: •Presents a comprehensive engineering overview of key issues associated with desalination project cost estimating. •Includes cost curves which can be used for budgetary level estimates of capital, and operation and maintenance (O&M)

expenditures. •Contains easy to use cost-estimating rules of thumb derived from actual desalination projects. •Includes several numeric examples illustrating the cost estimating process.

ÆDES PEMBROCHIANÆ

A NEW ACCOUNT AND DESCRIPTION OF THE ... ANTIQUITIES AND CURIOSITIES IN WILTON-HOUSE. ... WITH A COMPLETE INDEX; ...

72 IN HIS NAME

REUCHLIN, LUTHER, THENAUD, WOLFF AND THE NAMES OF SEVENTY-TWO ANGELS

Academic Studies Press Leading figures at the dawn of the sixteenth-century Reformation commonly faced the charge of “judaizing”: 72 In His Name concerns the changing views of four such men starting with their kabbalistic treatment of the 72 divine names of angels. Johann Reuchlin, the first of the four men featured in this book, survived the charge; Martin Luther’s increasingly anti-semitic stance is contrasted with the opposite movement of the French Franciscan Jean Thenaud whose kabbalistic manuscripts were devoted to Francis I; Philipp Wolff, the fourth, had been born into a Jewish family but his recorded views were decidedly anti-semitic. 72 In His Name also includes evidence that kabbalistic beliefs and practices, such as the service for exorcism recorded by Thenaud, were unwittingly recorded by Christians. Although the book concerns early modern Europe, the religious interactions, the shifting spiritual attitudes, and the shadows cast linger on.

CERTAIN DIFFICULTY OF BEING

ESSAYS ON THE QUEBEC NOVEL

McGill-Queen's Press - MQUP A Certain Difficulty of Being provides an English-speaking audience with an account of some of the most interesting narrative problems which mark the development of the Quebec novel. Anthony Purdy uses the tools of contemporary narratology to go beyond the more formal studies of the sixties and seventies. Why, he asks, are the narrators of the novels he studies telling the stories they tell, and why do they experience such difficulty in doing so ?

FUNDAMENTALS OF SITE REMEDIATION

Rowman & Littlefield New, updated edition of the acclaimed guide for metal- and hydrocarbon-contaminated soils. Concise and comprehensive, with the latest field remediation technologies, including nanotechnology and revegetation.

GAUGE FIELD THEORIES THEORETICAL STUDIES AND COMPUTER SIMULATIONS

CRC Press

EXETER VIGNETTES CLAREMBALD AND THE MIRACLES OF EXETER EXETER IN NORMAN DAYS THE MURDER OF THE PRECENTOR

Manchester University Press

EXETER VIGNETTES

Manchester University Press

THE WORKS OF THOMAS MOORE, ESQ. ; ACCURATELY PRINTED FROM THE LAST ORIGINAL EDITIONS WITH CRITICAL NOTES AND A SKETCH OF HIS LIFE

MEDIEVAL LATIN

SECOND EDITION

University of Chicago Press K. P. Harrington's Mediaeval Latin, the standard medieval Latin anthology used in the United States since its initial publication in 1925, has now been completely revised and updated for today's students and teachers by Joseph Pucci. This new edition of the classic anthology retains its breadth of coverage, but increases its depth by adding fourteen new selections, doubling the coverage of women writers, and expanding a quarter of the original selections. The new edition also includes a substantive grammatical introduction by Alison Goddard Elliott. To help place the selections within their wider historical, social, and political contexts, Pucci has written extensive introductory essays for each of the new edition's five parts. Headnotes to individual selections have been recast as interpretive essays, and the original bibliographic paragraphs have been expanded. Reprinted from the best modern editions, the selections have been extensively glossed with grammatical notes geared toward students of classical Latin who may be reading medieval Latin for the first time. Includes thirty-two full-page plates (with accompanying captions) depicting medieval manuscript and book production.

THE MYTH OF PRINT CULTURE

ESSAYS ON EVIDENCE, TEXTUALITY AND BIBLIOGRAPHICAL METHOD

University of Toronto Press The Myth of Print Culture is a critique of bibliographical and editorial method, focusing on the disparity between levels of material evidence (unique and singular) and levels of text (abstract and reproducible). It demonstrates how the particulars of evidence are manipulated in standard scholarly arguments by the higher levels of textuality they are intended to support. The individual studies in the book focus on a range of problems: basic definitions of what a book is; statistical assumptions; and editorial methods used to define and collate the presumably basic unit of 'variant.' This work differs from other recent studies in print culture in its emphasis on fifteenth-century books and its insistence that the problems encountered in that historical milieu (problems as basic as cataloguing errors) are the same as problems encountered in other areas of

literary criticism. The difficulties in the simplest of cataloguing decisions, argues Joseph Dane, tend to repeat themselves at all levels of bibliographical, editorial, and literary history.

MUSIC AND LITURGY IN MEDIEVAL BRITAIN AND IRELAND

Cambridge University Press From music written in praise of Irish, Scottish, Welsh, and English saints to the selection of Gospel readings by the Dominicans, this book introduces readers to the richness of medieval liturgical culture from across Britain and Ireland. Each of its three main sections opens with a chapter that offers a contextual frame for its key themes. With contributions from leading experts in pre-Reformation music and its sources, the book's focus on Insular liturgy – rather than that of only one part of Britain or Ireland – allows readers to learn about the devotional, political and creative networks at play in shaping liturgical practices: personal, secular, monastic, lay, and professional. The opening part includes broader discussions of Uses, including that of Salisbury, and case studies explore Insular witnesses to devotional activities in honour of both local cults and widely known figures, including St Columba, St Margaret, St Katherine, and the Magi.

THE CAMBRIDGE SONGS

A GOLIARD'S SONG BOOK OF THE XITH CENTURY

Cambridge, The University press, 1915.

MANUSCRIPTS AND MEDIEVAL SONG

INSCRIPTION, PERFORMANCE, CONTEXT

Cambridge University Press The manuscript sources of medieval song rarely fit the description of 'songbook' easily. Instead, they are very often mixed compilations that place songs alongside other diverse contents, and the songs themselves may be inscribed as texts alone or as verbal and musical notation. This book looks afresh at these manuscripts through ten case studies, representing key sources in Latin, French, German, and English from across Europe during the Middle Ages. Each chapter is authored by a leading expert and treats a case study in detail, including a listing of the manuscript's overall contents, a summary of its treatment in scholarship, and up-to-date bibliographical references. Drawing on recent scholarly methodologies, the contributors uncover what these books and the songs within them meant to their medieval audience and reveal a wealth of new information about the original contexts of songs both in performance and as committed to parchment.

JOHN SKELTON, PRIEST AS POET

SEASONS OF DISCOVERY

UNC Press Books Kinney shows how the Mass, the Divine Offices, and the liturgy underlie the themes and image clusters of Skelton's poems and argues that liturgical music, especially the plainsong, informs all of Skelton's meters. What emerges is the

portrait of a consistent, determined, and imaginative poet in whose canon poetics is grounded in the marriage of teaching and preaching. The study sheds new light on the interrelationships of politics, poetry, and religion in Renaissance England. Originally published in 1987. A UNC Press Enduring Edition -- UNC Press Enduring Editions use the latest in digital technology to make available again books from our distinguished backlist that were previously out of print. These editions are published unaltered from the original, and are presented in affordable paperback formats, bringing readers both historical and cultural value.

ENERGY AND RESOURCE VALORISATION OF BIOMASS AND WASTE TOWARDS SUSTAINABLE ENVIRONMENT VIA THERMOCHEMICAL AND BIOLOGICAL APPLICATION

Frontiers Media SA

ANSI/AAMI ST79: COMPREHENSIVE GUIDE TO STEAM STERILIZATION AND STERILITY ASSURANCE IN HEALTH CARE FACILITIES

Association for the Advancement of Medical Instrumentation (AAMI) The AAMI recommended practice, Comprehensive guide to steam sterilization and sterility assurance in health care facilities, is a breakthrough standard in terms of its scope. AAMI has updated ST79 with the release of ST79:2010/A4:2013. Of particular importance, A4:2013 provides four new figures demonstrating the wrapping of items for steam sterilization and adds an annex focused on Moisture assessment. As of Oct. 25, 2013, purchasers of ST79 will receive ANSI/AAMI ST79:2010 and A1:2010 and A2:2011 and A3:2012 and A4:2014 as a single consolidated document. Among other changes from the 2006 edition of ST79, this revised and expanded second edition of ST79 includes guidance on the use and application of Class 6 emulating indicators, a chemical monitoring device fairly new to the United States. Because ST79 essentially consolidates five AAMI steam sterilization standards (whose content was reviewed and updated to reflect current good practice prior to being incorporated into ST79), it truly is a comprehensive guideline for all steam sterilization activities in healthcare facilities, regardless of the size of the sterilizer or the size of the facility, and provides a resource for all healthcare personnel who use steam for sterilization.

SEAWATER REVERSE OSMOSIS DESALINATION

ASSESSMENT & PRE-TREATMENT OF FOULING AND SCALING

IWA Publishing This textbook covers the fundamentals of fouling and scaling in reverse osmosis systems. It includes theory and practice of pre-treatment, fouling and scaling in reverse osmosis applied for drinking and industrial water production. The impact of the water source - seawater, river water, brackish groundwater and (treated domestic) waste water - will be discussed in depth. The book presents the knowledge and experience gained at IHE Delft over the last 25 years during the implementation of the master programme in Water Supply Engineering and during the implementation of state-of-the-art research in understanding and solving

operational problems in full scale desalination plants. It presents the expert knowledge of IHE Delft in the areas of pre-treatment for reverse osmosis systems, assessment of water quality with respect to fouling potential, development of methods for quality assessment, modified fouling index ultrafiltration at constant flux, transparent exopolymer particles, antiscalant dose optimization, biological growth potential), algal blooms, scaling control. The book will be used in the annual master programme at IHE Delft and it will be of interest for students, academics, engineers and managers in drinking water facilities all over the world.

DESIGN MANUAL

FINE PORE AERATION SYSTEMS

WASTEWATER TREATMENT AND REUSE THEORY AND DESIGN EXAMPLES, VOLUME 2

POST-TREATMENT, REUSE, AND DISPOSAL

CRC Press This book will present the theory involved in wastewater treatment processes, define the important design parameters involved, and provide typical values of these parameters for ready reference; and also provide numerical applications and step-by-step calculation procedures in solved examples. These examples and solutions will help enhance the readers' comprehension and deeper understanding of the basic concepts, and can be applied by plant designers to design various components of the treatment facilities. It will also examine the actual calculation steps in numerical examples, focusing on practical application of theory and principles into process and water treatment facility design.

TREATMENT OF COOLING WATER

Springer Science & Business Media Many cooling systems use water as cooling medium. They are found in public buildings, industrial production systems or power plants. Almost every cooling system using water is degraded by deposition, corrosion and microbiological fouling. This book identifies the whole bunch of problems due to water cooling systems and proposes specific solutions to all of them. The authors have an expertise of over 20 years solving cooling water problems. In this book, they advise all practitioners which need to plan, buy or operate cooling systems.

INTAKES AND OUTFALLS FOR SEAWATER REVERSE-OSMOSIS DESALINATION FACILITIES

INNOVATIONS AND ENVIRONMENTAL IMPACTS

Springer The book assembles the latest research on new design techniques in water supplies using desalinated seawater. The authors examine the diverse issues related to the intakes and outfalls of these facilities. They clarify how and why these key components of the facilities impact the cost of operation and subsequently the cost of water supplied to the consumers. The book consists of contributed articles from a number of experts in the field who presented their findings at the

"Desalination Intakes and Outfalls" workshop held at King Abdullah University of Science and Technology (KAUST) in Saudi Arabia in October, 2013. The book integrates coverage relevant to a wide variety of researchers and professionals in the general fields of environmental engineering and sustainable development.

THE EGYPTIAN MERCHANT MARINE AND CARGO HANDLING IN IMPORTANT PORTS
