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The Water Quality Research Journal of Canada is a forum for original research dealing with the aquatic environment. The journal publishes peer reviewed, scholarly articles dealing with the aquatic environment. Articles from outside of Canada are welcome provided that they are of interest to the Canadian water quality research community.

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Journal of Water Reuse and Desalination publishes refereed review articles, theoretical and experimental research papers, new findings and issues of unplanned and planned reuse. The journal welcomes contributions from developing and developed countries.

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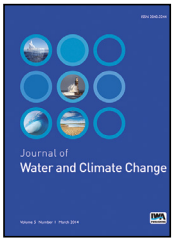

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Journal of Water Supply: Research & Technology – AQUA publishes peer reviewed scientific and technical, and practical/operational papers that deal with research and development in water supply technology and management, covering the complete water cycle.

ISSN: 0003-7214; Vol.65, 8 issues, 2016
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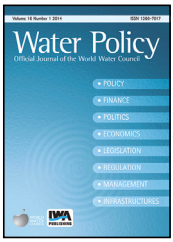

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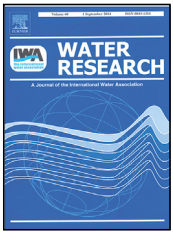

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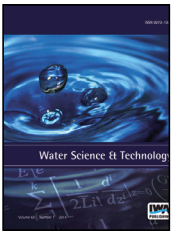

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Water Science and Technology – together with its adjunct journals *Water Science and Technology: Water Supply* and *Water Practice and Technology* – has a special mission to serve as a bridge between science, engineering applications and management aspects of water as represented by the many IWA specialist groups and other groupings. Papers describing progress in full-scale implementations are particularly encouraged.

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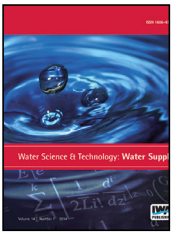

Water Science and Technology: Water Supply, published as an adjunct to *Water Science and Technology,* applies the same rigorous peer review standards as *Water Science and Technology* so as to publish the best papers submitted on all aspects of water supply.

Subjects covered include:

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Water Science and Technology: Water Supply has a special mission to serve as a bridge between the many IWA specialist groups and between science, engineering

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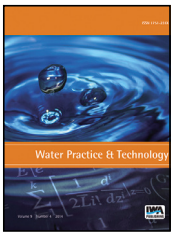

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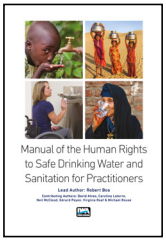
Development, Policy & Governance

Manual on the Human Rights to Safe Drinking Water and Sanitation for Practitioners

Editors: Robert Bos



The *Manual on the Human Rights to Safe Drinking Water and Sanitation for Practitioners* aims to introduce the principles and concepts contained in the United Nations resolutions recognizing the Human Right to Safe Drinking Water and Sanitation (HRWS). It clarifies the language and terminology used in the promotion of human rights, and provides guidance on the roles and responsibilities for everyone who contributes to the progressive realization of the HRWS, and on how the human rights principles and actions can be incorporated into their essential functions.

August 2016 • 120 pages • Paperback
ISBN: 9781780407432
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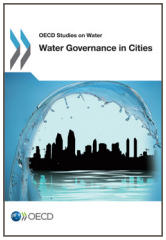
Development, Policy & Governance

Water Governance in Cities

Authors: Organisation for Economic Co-Operation and Development (OECD)



Urban, demographic and climate trends are increasingly exposing cities to risks of having too little, too much and too polluted water. Facing these challenges requires robust public policies and sound governance frameworks to co-ordinate across multiple scales, authorities, and policy domains. Building on a survey of 48 cities in OECD countries and emerging economies, the report analyses key factors affecting urban water governance, discusses trends in allocating roles and responsibilities across levels of government, and assesses multi-level governance gaps in urban water management. It provides a framework for mitigating territorial and institutional fragmentation and raising the profile of water in the broader sustainable development agenda, focusing in particular on the contribution of metropolitan governance, rural-urban partnerships and stakeholder engagement.

This title belongs to the OECD Report Series

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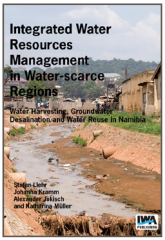
Development, Policy & Governance

Integrated Water Resources Management in Water-scarce Regions

Water Harvesting, Groundwater Desalination and Water Reuse in Namibia

Authors: Stefan Liehr, Johanna Kramm, Alexander Jokisch, and Katharina Müller



IWRM relies on solutions that use various sources, types and qualities of water for different purposes. CuveWaters implemented pilot plants for rain- and floodwater harvesting, groundwater desalination, as well as facilities for sanitation and water reuse. Technical components of the project were framed by societal and scientific components.

Integrated Water Resources Management in Water-scarce Regions provides a comprehensive view on the complexity and interconnectedness of findings and conclusions regarding the principle strategic approach within the CuveWaters project's concept. The book aims to present the work of technical, social and natural scientists but also of media professionals. It gives thematically focused details on the three technology-based solutions which go beyond mere technical considerations and embed this into the overarching process towards IWRM in Namibia.

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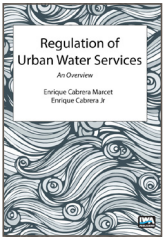
Development, Policy & Governance

Regulation of Urban Water Services

An Overview

Editors: Enrique Cabrera Marcet and Enrique Cabrera Jr



Over the years, urban water systems have developed rapidly and unsystematically. Implementation needs to meet modern demands sustainably, providing quality at the lowest cost. This requires a new tool to cover concerns of high quality standards, growing complexity, social importance, the intrinsic monopolist nature of the sector and sustaining them environmentally, economically and socially. This book provides experience from workshops, promoting the exchange of ideas for a much-needed urban water regulation model.

* For Ebook prices please see page 2

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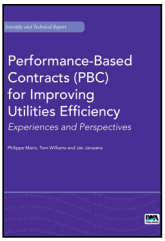
Development, Policy & Governance

Performance-Based Contracts (PBC) for Improving Utilities Efficiency

Authors: Jan Janssens, Didier Carron, Philippe Marin, Philip Giantris and Tom Williams



Performance-Based Contracts (PBC) for Improving Utilities Efficiency: Experiences and Perspectives is a compendium of articles written by members of the PBC taskforce. It focuses on new approaches without delegated management to private operator i.e. service contracts, consulting contracts, alliance approach, public-public partnership. It also mentions new design and generation of more traditional PPPs, (MC, lease, concession), where a larger proportion of performance-based design is being applied.

This title belongs to the Scientific and Technical Report Series

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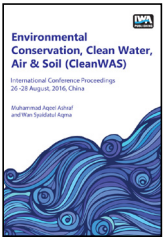
Environmental Conservation, Clean Water, Air & Soil (CleanWAS)

International Conference Proceedings
26-28 August, 2016, China

Editors: Muhammad Aqeel Ashraf and Wan Syaidatul Aqma



The aim of CleanWAS 2016, Beijing, China is to provide productive opportunities for academics and practitioners from interdisciplinary fields of Environmental Sciences to meet, share and take away expertise and ideas in related disciplines.

CleanWAS 2016 offers interdisciplinary themes of quality R&D topical developments from potential contributors and experts and presents new techniques and perspectives that contribute to a clean environment.

The CleanWAS conference was first organized in 2012 and is an annual conference organized by the International Water, Air and Soil Conservation society (INWASCON) and supported by various Malaysian (UKM, UMS, UIAM) and Chinese universities (CUG, NKU, SYSU).

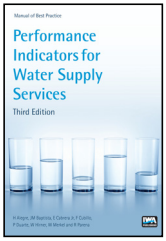
August 2016 • 300 pages • Paperback
ISBN: 9781780408156
Ebook ISBN: 9781780408163
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Development, Policy & Governance

Performance Indicators for Water Supply Services

Third Edition

Authors: Helena Alegre, Jaime M. Baptista, Enrique Cabrera Jr, Francisco Cubillo, Patricia Duarte, Wolfram Hirner, Wolf Merkel and Renato Parena



The IWA Performance Indicators System for water services is now recognized as a worldwide reference. The system has proven to be adaptable and it has been used in very different contexts for diverse purposes. The Performance Indicators System can be used in any organization regardless of its size, nature (public, private, etc.) or degree of complexity and development.

The third edition of *Performance Indicators for Water Supply Services* represents a further improvement of the original manual. It contains a reviewed and consolidated version of the indicators, resulting from the real needs of water companies worldwide that were expressed during the extensive field testing of the original system. The indicators now properly cover bulk distribution and the needs of developing countries, and all definitions have been thoroughly revised. The confidence grading scheme has been simplified and the procedure to assess the results-uncertainty has been significantly enhanced. In addition to the updated contents of the original edition, a large part of the manual is now devoted to the practical application of the system. Complete with simplified step-by-step implementation procedures and case studies, the manual provides guidelines on how to adapt the IWA concepts and indicators to specific contexts and objectives.

This title belongs to the Manual of Best Practice Series

December 2016 • 416 pages • Hardback
ISBN: 9781780406329
Ebook ISBN: 9781780406336
Non Members Price: £125.00/US$225.00/€169.00
IWA Members Price: £94.00/US$169.00/€127.00

* For Ebook prices please see page 2

Development, Policy & Governance

Water Consumption, Tariffs and Regulation

Editor: Francesc Hernandez-Sancho

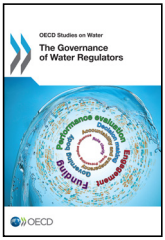
Water Consumption, Tariffs and Regulation aims to provide a statistical overview about water abstraction, consumption, tariffs and data on sewage and wastewater treatment at an international level. It is mainly based on the statistical information provided by IWA Specialist Group on Statistics and Economics.

January 2017 • 200 pages • Paperback
ISBN: 9781780404677
Ebook ISBN: 9781780404684
Non Members Price: £85.00/US$153.00/€115.00
IWA Members Price: £64.00/US$115.00/€86.00

Development, Policy & Governance

The Governance of Water Regulators

Authors: Organisation for Economic Co-Operation and Development (OECD)



The establishment of dedicated regulatory bodies in charge of regulating water services, whilst being recent, is nevertheless a consistent trend among OECD and non-OECD countries. This report presents the governance arrangements, operational modalities and use of regulatory tools across a sample of 34 established water regulators. It relies on the OECD Best Practice Principles for Regulatory Policy: The Governance of Regulators to structure the information collected through a survey exercise. It has been developed in close co-operation with the OECD Network of Economic Regulators (NER).

This title belongs to the OECD Report Series

May 2015 • 116 pages • Paperback
ISBN: 9781780407654
Ebook ISBN: 9781780407661
Non Members Price: £25.00/US$45.00/€34.00
IWA Members Price: £19.00/US$34.00/€26.00

Development, Policy & Governance

Stakeholder Engagement for Inclusive Water Governance

Authors: Organisation for Economic Co-Operation and Development (OECD)

This report assesses the current trends, drivers, obstacles, mechanisms, impacts, costs and benefits of stakeholder engagement in the water sector. It builds on empirical data collected through an extensive survey collected worldwide. It highlights the increasing importance of stakeholder engagement in the water sector as a principle of good governance and the need for better understanding of the pressing and emerging issues related to stakeholder engagement

This title belongs to the OECD Report Series

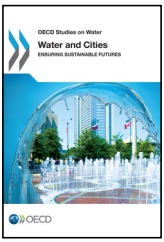
May 2015 • 279 pages • Paperback
ISBN: 9781780407630
Ebook ISBN: 9781780407647
Non Members Price: £53.00/US$95.00/€72.00
IWA Members Price: £40.00/US$72.00/€54.00

Development, Policy & Governance

Water and Cities

Ensuring Sustainable Futures

Authors: Organisation for Economic Co-Operation and Development (OECD)



This report focuses on the urban water management challenges facing cities across OECD countries, and explores both national and local policy responses with respect to water-risk exposure, the state of urban infrastructures and dynamics, and institutional and governance architectures. The analyses focus on four mutually dependent dimensions – finance, innovation, urban-rural co-operation and governance – and proposes a solutions-oriented typology based on urban characteristics.

This title belongs to the OECD Report Series

May 2015 • 182 pages • Paperback
ISBN: 9781780407593
Ebook ISBN: 9781780407609
Non Members Price: £31.00/US$56.00/€42.00
IWA Members Price: £23.00/US$41.00/€31.00

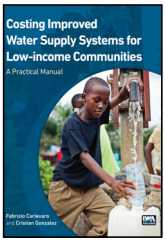
* For Ebook prices please see page 2

Development, Policy & Governance

Costing Improved Water Supply Systems for Low-income Communities

A Practical Manual

Authors: Fabrizio Carlevaro and Cristian Gonzalez



This manual and the free downloadable costing tool is the outcome of a project identified by the Water, Sanitation and Health Programme (WSH) of the World Health Organization (WHO) faced with the challenge of costing options for improved access, both to safe drinking water and to adequate sanitation.

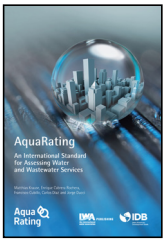
August 2015 • 256 pages • Paperback
ISBN: 9781780407210
Ebook ISBN: 9781780407227
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Development, Policy & Governance

AquaRating

An international standard for assessing water and wastewater services

Authors: Matthias Krause, Enrique Cabrera Jr, Francisco Cubillo, Carlos Diaz and Jorge Ducci



The Inter-American Development Bank (IDB), in cooperation with the International Water Association (IWA), has developed a rating system that assesses the performance of water and sanitation service providers in a comprehensive way and aims to provide an industry standard for utilities.

October 2015 • 398 pages • Paperback
ISBN: 9781780407395
Ebook ISBN: 9781780407401
Non Members Price: £115.00/US$207.00/€155.00
IWA Members Price: £86.00/US$155.00/€116.00

Also available in a Spanish Edition

AquaRating

Un estándar internacional para evaluar los servicios de agua y alcantarillado saneamiento

Authors: Matthias Krause, Enrique Cabrera Jr, Francisco Cubillo, Carlos Diaz and Jorge Ducci

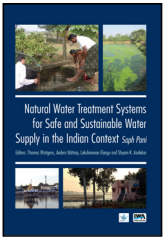
September 2015 • 300 pages • Paperback
ISBN: 9781780407371
Ebook ISBN: 9781780407388
Non Members Price: £115.00/US$207.00/€155.00
IWA Members Price: £86.00/US$155.00/€116.00

Development, Policy & Governance

Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context

Saph Pani

Authors: Thomas Wintgens, Anders Nättorp, Lakshmanan Elango, and Shyam R. Asolekar



Natural Water Treatment Systems for Safe and Sustainable Water Supply aims to study and improve natural water treatment systems, such as River Bank Filtration (RBF), Managed Aquifer Recharge (MAR), and wetlands in India, building local and European expertise in this field. The project aims to enhance water resources and water supply, particularly in water stressed urban and peri urban areas in different parts of the Indian sub-continent. This project is co-funded by the European Union under the Seventh Framework (FP7) scheme of small or medium scale focused research projects for specific cooperation actions (SICA) dedicated to international cooperation partner countries.

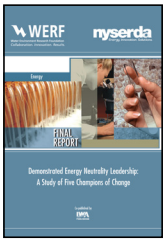
July 2016 • 342 pages • Paperback
ISBN: 9781780408385
Ebook ISBN: 9781780408392
Non Members Price: £115.00/US$207.00/€155.00
IWA Members Price: £86.00/US$155.00/€116.00

Development, Policy & Governance

Demonstrated Energy Neutrality Leadership

A Study of Five Champions of Change

Authors: Steve Tarallo and Paul Kohl



This title belongs to the WERF Research Report Series

February 2016 • 100 pages • Electronic book text
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Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

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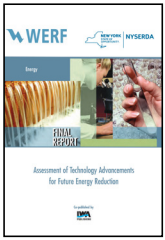
Development, Policy & Governance

Assessment of Technology Advancements for Future Energy Reduction

Author: John Willis



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Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Development, Policy & Governance

Institutional Issues for Integrated 'One Water' Management

Author: Pierre Mukheibir

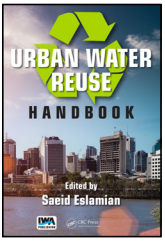
This title belongs to the WERF Research Report Series

December 2015 • 200 pages • Electronic book text
Ebook ISBN: 9781780407258
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Wastewater, Reuse & Sludge

Urban Water Reuse Handbook

Author: Saeid Eslamian



Rapid population growth, along with drought, water-intensive energy development, climate change conditions, and a number of other factors all place stress on world water supplies. In many countries throughout the world, water reuse has proved to be an effective and safe means to help satisfy growing water demands and offset scarcity. This book provides the latest information on water reuse applications with a focus on urban areas. It examines numerous new and alternative methods for sustainable water supplies.

This title is co-published with CRC Press

January 2016 • 1184 pages • Hardback
ISBN: 9781780407364
Non Members Price: £108.00/US$194.00/€146.00
IWA Members Price: £81.00/US$146.00/€109.00

Wastewater, Reuse & Sludge

Manejo de Lodos Fecales

Authors: Linda Strande, Mariska Ronteltap and Damir Brdjanovic

This book is the Spanish translation of *Faecal Sludge Management: Systems Approach for Implementation and Operation.*

Manejo de Lodos Fecales addresses the organization of the entire faecal sludge management service chain, from the collection and transport of sludge, and the current state of knowledge of treatment options, to the final end use or disposal of treated sludge. The book also presents important factors to consider when evaluating and upscaling new treatment technology options.

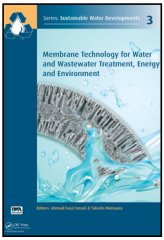
November 2016 • 400 pages • Paperback
ISBN: 9781780408019
Open Access Ebook ISBN: 9781780408026
Non Members Price: £75.00/US$135.00/€101.00
IWA Members Price: £56.00/US$101.00/€76.00

* For Ebook prices please see page 2

Wastewater, Reuse & Sludge

Membrane Technology for Water and Wastewater Treatment, Energy and Environment

Authors: A F Ismail and Takeshi Matsuura



Membrane Technology for Water and Wastewater Treatment, Energy and Environment provides information to assess the quantity and quality of current research and development activities in the ASEAN region, especially on membrane science and technology, which is recognized as one of the most powerful tools to solve environmental and energy problems. The book also reflects upon the Middle East region, where research on water treatment is growing due to scarcity of water. It includes information on the latest developments of novel membranes for water and wastewater treatment. The book has an interdisciplinary approach addressing the challenges of fresh water supply and sanitation.

This title is co-published with CRC Press

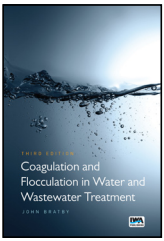
March 2016 • 450 pages • Hardback
ISBN: 9781780407951
Non Members Price: £88.00/US$158.00/€119.00
IWA Members Price: £66.00/US$119.00/€89.00

Wastewater, Reuse & Sludge

Coagulation and Flocculation in Water and Wastewater Treatment

Third Edition

Author: John Bratby



Coagulation and Flocculation in Water and Wastewater Treatment is thoroughly revised and updated and provides a comprehensive account of coagulation and flocculation techniques and technologies in a single volume covering theoretical principles to practical applications.

New topics in this new edition include:

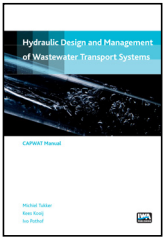
- activated sludge bulking and foaming control and enhanced bioflocculation
- algae removal and harvesting;
- dissolved organic nitrogen (DON) removal
- inorganics removal
- turbidity and its measurement
- wastewater treatment by coagulation and chemically enhanced primary treatment (CEPT).

April 2016 • 538 pages • Hardback
ISBN: 9781780407494
Ebook ISBN: 9781780407500
Non Members Price: £105.00/US$189.00/€142.00
IWA Members Price: £79.00/US$142.00/€107.00

Wastewater, Reuse & Sludge

Hydraulic Design and Management of Wastewater Transport Systems

Authors: Michiel Tukker, Kees Kooij and Ivo Pothof



Hydraulic Design and Management of Wastewater Transport Systems is a manual resulting from the research project CAPWAT (CAPacity loss in wasteWATer pressure pipelines), which researched the mechanisms for the creation, stagnation and discharge of gas bubbles in wastewater pressure pipelines. During this six-year research programme, it was recognized that there is no hydraulic manual/guideline that focuses on the entire wastewater pressure pipeline system, the processes it includes, and the interaction between the pressure pipeline and the pumping station.

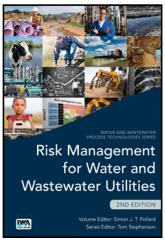
May 2016 • 152 pages • Paperback
ISBN: 9781780407821
Ebook ISBN: 9781780407814
Non Members Price: £89.00/US$160.00/€120.00
IWA Members Price: £67.00/US$120.00/€90.00

Wastewater, Reuse & Sludge

Risk Management for Water and Wastewater Utilities

Second Edition

Author: Simon Pollard



Water risks and security are a major global hazard in the 21st century and it is essential that water professionals have a solid grounding in the principles of preventative risk management.

The second edition of this best-selling textbook, *Risk Management for Water and Wastewater Utilities*, extends beyond first principles and examines the practicalities of resilience and vulnerability assessment, strategic risk appraisal and the interconnectedness of water utility risks in a networked infrastructure. It provides an updated overview of tools and techniques for risk management in the context of the heightened expectations for sound risk governance that are being made of all water and wastewater utilities.

Risk Management for Water and Wastewater Utilities provides a valuable starting point for newly appointed risk managers in the utility sector and offers MSc level self-paced study with self-assessment questions and abbreviated answers, key learning points, case studies and worked examples.

May 2016 • 180 pages • Paperback
ISBN: 9781780407470
Ebook ISBN: 9781780407487
Non Members Price: £89.00/US$160.00/€120.00
IWA Members Price: £67.00/US$120.00/€90.00

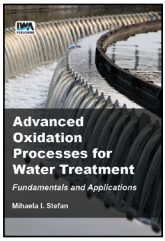
* For Ebook prices please see page 2

Wastewater, Reuse & Sludge

Advanced Oxidation Processes for Water Treatment

Fundamentals and Applications

Editor: Mihaela I. Stefan



Advanced Oxidation Processes for Water Treatment covers the key advanced oxidation processes developed for chemical contaminant destruction in polluted water sources, some of which have been implemented successfully at water treatment plants around the globe.

Advanced Oxidation Processes for Water Treatment reflects the most advanced knowledge and process understanding and the authors of each of the book chapters are renowned, highly respected experts in the field. It has a high scientific content that is clearly presented to be easily understood by university students, researchers, consulting engineers and water industry professionals.

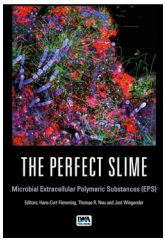
February 2017 • 450 pages • Paperback
ISBN: 9781780407180
Ebook ISBN: 9781780407197
Non Members Price: £115.00/US$207.00/€155.00
IWA Members Price: £86.00/US$155.00/€116.00

Wastewater, Reuse & Sludge

The Perfect Slime

Microbial Extracellular Polymeric Substances (EPS)

Editors: Hans-Curt Flemming, Dr Thomas R. Neu and Dr Jost Wingender



The Perfect Slime presents the latest state of knowledge and all aspects of the Extracellular Polymeric Substances, (EPS) matrix – from the ecological and health to the antifouling perspectives. The book brings together all the current material in order to expand our understanding of the functions, properties and characteristics of the matrix as well as the possibilities to strengthen or weaken it.

The EPS matrix represents the immediate environment in which biofilm organisms live. From their point of view, this matrix has paramount advantages. It allows them to stay together for extended periods and form synergistic microconsortia, it retains extracellular enzymes and turns the matrix into an external digestion system and it is a universal recycling yard, it protects them against desiccation, it allows for intense communication and represents a huge genetic archive.They can remodel their matrix, break free and eventually they can use it as a nutrient source. The EPS matrix can be considered as one of the emergent properties of biofilms which are a major reason for the success of this form of life.

Nevertheless, they have been termed the “black matter of biofilms” for good reasons. First of all: the isolation methods define the results. In most cases, only water soluble EPS components are investigated; insoluble ones such as cellulose or amyloids are much less included. In particular in environmental biofilms with many species, it is difficult to separate the various EPS molecules they are encased in and to define which species produced which EPS. The regulation and the factors which trigger or inhibit EPS production are still very poorly understood.

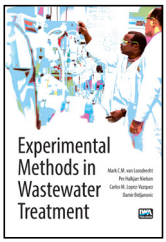
Furthermore: bacteria are not the only microorganisms to produce EPS. Archaea, Fungi and algae can also form EPS. This book investigates the questions; what is their composition, function, dynamics and regulation? What do they all have in common?

August 2016 • 360 pages • Hardback
ISBN: 9781780407418
Ebook ISBN: 9781780407425
Non Members Price: £104.00/US$187.00/€140.00
IWA Members Price: £78.00/US$140.00/€105.00

Wastewater, Reuse & Sludge

Experimental Methods in Wastewater Treatment

Authors: Mark C. M. van Loosdrecht, Per Halkjaer Nielsen, Carlos M. Lopez-Vazquez and Damir Brdjanovic



For sector professionals, especially a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of new developments in experimental methods can be overwhelming, particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available.

Experimental Methods in Wastewater Treatment assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world. *Experimental Methods in Wastewater Treatment* forms part of the internet-based curriculum in wastewater treatment at UNESCO-IHE and, as such, may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do.

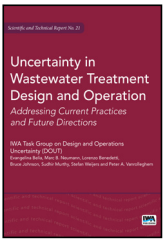
May 2016 • 360 pages • Hardback
ISBN: 9781780404745
Open Access Ebook ISBN: 9781780404752
Non Members Price: £105.00/US$189.00/€142.00
IWA Members Price: £79.00/US$142.00/€107.00

* For Ebook prices please see page 2

Wastewater, Reuse & Sludge

Uncertainty in Wastewater Treatment Design and Operation

Authors: Evangelina Belia, Marc B. Neumann, Lorenzo Benedetti, Bruce Johnson, Sudhir Murthy, Stefan Weijers and Peter A. Vanrolleghem



Uncertainty in Wastewater Treatment Design and Operation documents how uncertainty, opportunity and risk are currently handled in the wastewater treatment practice by consultants, utilities and regulators. The book provides a useful set of terms and definitions relating to uncertainty and promotes an understanding of the issues and terms involved. It identifies the sources of uncertainty in different project phases and presents a critical review of the available methods. Real-world examples are selected to illustrate where and when sources of uncertainty are introduced and how models are implemented and used in design projects and in operational optimisation. *Uncertainty in Wastewater Treatment Design and Operation* defines the developments required to provide improved procedures and tools to implement uncertainty and risk evaluations in projects. It is a vital reference for utilities, regulators, consultants, and trained management dealing with certainty, opportunity and risk in wastewater treatment.

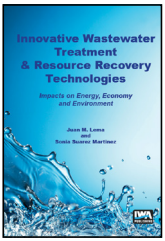
This title belongs to the Scientific and Technical Report Series

February 2017 • 300 pages • Paperback
ISBN: 9781780401027
Ebook ISBN: 9781780401034
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Wastewater, Reuse & Sludge

Innovative Wastewater Treatment & Resource Recovery Technologies: Impacts on Energy, Economy and Environment

Authors: Juan M. Lema and Sonia Suarez Martinez



The main original approach of *Innovative Wastewater Treatment & Resource Recovery Technologies* is that the chapters dealing with technology include a conclusion section in which data can be fed into the Environmental Decision Support Systems and a mini-assessment is provided. The book covers the technological opportunities, benefits and challenges as well as the environmental, economic, and legal impacts.

January 2017 • 600 pages • Paperback
ISBN: 9781780407869
Ebook ISBN: 9781780407876
Non Members Price: £149.00/US$268.00/€201.00
IWA Members Price: £112.00/US$202.00/€151.00

Wastewater, Reuse & Sludge

Nanotechnology in Industrial Wastewater Treatment

Authors: Dr. Arup Roy and Professor Jayanta Bhattacharya

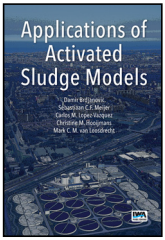
Nanotechnology in Industrial Wastewater Treatment is a state of the art reference book. The book describes the application and synthesis of Ca-based and magnetic nano-materials and their potential application for removal/treatment of heavy metals from wastewater. *Nanotechnology in Industrial Wastewater Treatment* discusses the rapid wastewater treatment methods using Ca-based nanomaterials and magnetic nanomaterials.

January 2015 • 220 pages • Paperback
ISBN: 9781780406879
Ebook ISBN: 9781780406886
Non Members Price: £95.00/US$171.00/€128.00
IWA Members Price: £71.00/US$127.80/€96.00

Wastewater, Reuse & Sludge

Applications of Activated Sludge Models

Authors: Damir Brdjanovic, S. C. F. Meijer, C. M. Lopez-Vazquez, C. M. Hooijmans and Mark C. M. van Loosdrecht



Applications of Activated Sludge Models has been prepared in celebration of 25 years of ASM1 and in tribute to the activated sludge modelling pioneer, the late Professor G.v.R. Marrais. It consists of a dozen of practical applications for ASM models to model development, plant optimization, extension, upgrade, retrofit and troubleshooting, carried out by the members of the Delft modelling group over the last two decades.

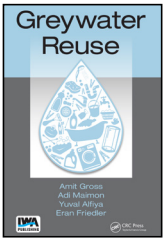
February 2015 • 500 pages • Hardback
ISBN: 9781780404639
Ebook ISBN: 9781780404660
Non Members Price: £129.00/US$232.00/€174.00
IWA Members Price: £97.00/US$175.00/€131.00

* For Ebook prices please see page 2

Wastewater, Reuse & Sludge

Greywater Reuse

Authors: Amit Gross, Adi Maimon, Yuval Alfiya and Eran Friedler



Greywater Reuse examines the features and implications of greywater reuse scientifically, quantitatively, and thoroughly. Based on the authors' extensive studies of treatment facilities in urban and rural environments, development of greywater treatment systems, and research of potential environmental and health risks posed by greywater at different treatment levels, this authoritative text:

- Describes the chemical, physical, and microbial properties of greywater
- Covers the treatment and removal of greywater pollutants, providing case studies of common methods.

This title is co-published with CRC Press

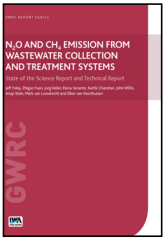
May 2015 • 301 pages • Hardback
ISBN: 9781780407357
Non Members Price: £66.00/US$119.00/€89.00
IWA Members Price: £49.00/US$88.00/€66.10

Wastewater, Reuse & Sludge

N2O and CH4 Emission from Wastewater Collection and Treatment Systems

State of the Science Report and Technical Report

Authors: Jeff Foley, Zhiguo Yuan, Jurg Keller, Elena Senante, Kartik Chandran, John Willis, Anup Shah, Mark C. M. van Loosdrecht and Ellen van Voorthuizen



In a world where there is a growing awareness of the possible effects of human activities on climate change, there is a need to identify the emission of greenhouse gases (GHG) from wastewater treatment plants (WWTPs).

This report shows how:

- To define the origin of N2O emission.
- To understand the formation processes of N2O
- To identify the level of CH4 emissions from wastewater collection and treatment systems
- To evaluate the use of generic emission factors to estimate the emission of N2O from individual plants

This title belongs to the GWRC Report Series

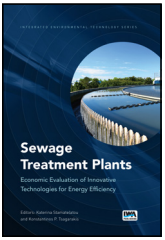
May 2015 • 248 pages • Hardback
ISBN: 9781780407333
Ebook ISBN: 9781780407340
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Wastewater, Reuse & Sludge

Sewage Treatment Plants

Economic Evaluation of Innovative Technologies for Energy Efficiency

Authors: Katerina Stamatelatou and Konstantinos P. Tsagarakis



Sewage Treatment Plants: Economic Evaluation of Innovative Technologies for Energy Efficiency aims to show how cost saving can be achieved in sewage treatment plants through implementation of novel, energy efficient technologies or modification of the conventional, energy demanding treatment facilities towards the concept of energy streamlining. The book brings together knowledge from engineering, economics, utility management and practice and helps to provide a better understanding of the real economic value with methodologies and practices about innovative energy technologies and policies in sewage treatment plants.

This title belongs to the Integrated Environmental Technology Series

May 2015 • 376 pages • Hardback
ISBN: 9781780405018
Ebook ISBN: 9781780405025
Non Members Price: £115.00/US$207.00/€155.00
IWA Members Price: £86.00/US$155.00/€116.00

Wastewater, Reuse & Sludge

Principles of Membrane Bioreactors for Wastewater Treatment

Authors: Hee-Deung Park, In-Soung Chang and Kwang-Jin Lee

Principles of Membrane Bioreactors for Wastewater Treatment is a practical handbook for Membrane Bioreactor design and operation and provides an understanding of how membrane fouling and channel cleaning can impact plant operation and how to optimize operating parameter values. The book facilitates step-by-step learning by users with numerous case studies, worked examples and problems.

This title is co-published with CRC Press.

June 2015 • 360 pages • Hardback
ISBN: 9781780407029
Non Members Price: £56.00/US$101.00/€76.00
IWA Members Price: £42.00/US$76.00/€57.00

* For Ebook prices please see page 2

Wastewater, Reuse & Sludge

Technologies for Sidestream Nitrogen Removal
Authors: Gregory Bowden, David Stensel and Ryujiro Tsuchihashi

This title belongs to the WERF Research Report Series

September 2016 • 100 pages • Electronic book text
Ebook ISBN: 9781780407890
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Wastewater, Reuse & Sludge

Can TMDL Models Reproduce the Nutrient Loading-Hypoxia Relationship?
Author: Dominic M. DiToro

This title belongs to the WERF Research Report Series

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Ebook ISBN: 9781780406497
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Wastewater, Reuse & Sludge

Impact of Advanced Oxidation Processes on the Composition and Biodegradability of Soluble Organic Nutrients in Wastewater Effluents
Author: April Z. Gu

This title belongs to the WERF Research Report Series

November 2016 • 60 pages • Electronic book text
Ebook ISBN: 9781780408040
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IWA Members Price: £25.00/US$38.00/€28.00

Wastewater, Reuse & Sludge

Guidance Document on Anaerobic Digester Foaming Prevention and Control Methods
Authors: Krishna Pagilla

This title belongs to the WERF Research Report Series

February 2015 • 70 pages • Electronic book text
Ebook ISBN: 9781780406596
Non Members Price: £34.00/US$51.00/€38.00
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Wastewater, Reuse & Sludge

Evaluating the Impact of Cold and Wet Weather Events on Biological Nutrient Removal in Wastewater Treatment Facilities

Author: Wendell Khunjar

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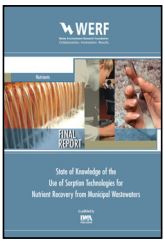
Wastewater, Reuse & Sludge

State of Knowledge of the Use of Sorption Technologies for Nutrient Recovery from Municipal Wastewaters

Authors: Holly Gray and Wayne Parker



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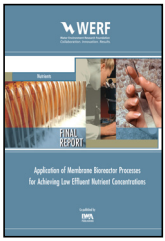
IWA Members Price: £25.00/US$38.00/€28.00

Wastewater, Reuse & Sludge

Application of Membrane Bioreactor Processes for Achieving Low Effluent Nutrient Concentrations

Authors: Marie-Laure Pellegrin and J. B. Neethling



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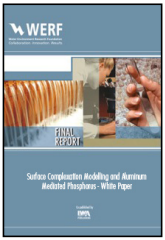
Wastewater, Reuse & Sludge

Surface Complexation Modelling and Aluminum Mediated Phosphorus - White Paper

Author: D. Scott Smith



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Wastewater, Reuse & Sludge

Algal Nutrient Removal During Wastewater Treatment
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Wastewater, Reuse & Sludge

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Authors April Z. Gu

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Wastewater, Reuse & Sludge

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Author: Christine deBarbadillo

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Wastewater, Reuse & Sludge

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Author: Rajagopalan Ganesh

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Wastewater, Reuse & Sludge

WWTP Design and Operation Modifications to Improve Management of Biosolids Regrowth, Odors, and Sudden Increase in Indicator Organisms

Authors: Sudhir Murthy, Matthew J. Higgins, Tim Fletcher, Ana Deletic, T. Koegst, Peter Krebs and Thamarat Koottatep

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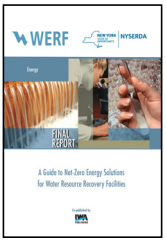
Wastewater, Reuse & Sludge

A Guide to Net-Zero Energy Solutions for Water Resource Recovery Facilities

Authors: Steve Tarallo and Paul Kohl



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Author: Sunil K. Sinha

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Wastewater, Reuse & Sludge

Mass Transfer Characteristics of Floating Media in MBBR and IFAS Fixed-Film Systems

Authors: Henryk Melcer

This title belongs to the WERF Research Report Series

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Author: Maureen O'Shaughnessy

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Wastewater, Reuse & Sludge

Wastewater Treatment Anaerobic Digester Foaming Prevention and Control Methods
Author: Krishna Pagilla

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IWA Members Price: £25.00/US$38.00/€28.00

Wastewater, Reuse & Sludge

Triple Bottom Line Evaluation of Biosolids Management Options
Author: Steve Tarallo

This title belongs to the WERF Research Report Series

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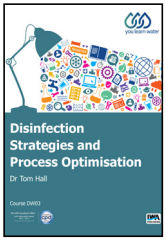
IWA Members Price: £25.00/US$38.00/€28.00

Water Resources & Environment

Disinfection Strategies and Process Optimisation
Author: Tom Hall



This book is only available as part of the on-line course.
Please visit this site for information: http://www.youlearnwater.com/collections/all;
A discount of 20% is offered on the course if you enter the discount code IWAP20.
It is an integral part of the on-line course that provides comprehensive knowledge of *Disinfection Strategies and Process Optimisation* and is available only through enrolment on Disinfection Strategies and Process Optimisation Course which is self-paced and self-assessed. It can be accessed from a PC, laptop, tablet or smart phone and involves 20 hours of learning, including exercises.
The course carries the value of 2 CPD/CEU points and is accredited by the CPD Standards Office in London.
The five main learning outcomes provide:

- a good appreciation of the importance of disinfection;
- knowledge of the design and operation of disinfection systems
- an understanding of how to avoid excessive by-product formation
- knowledge of the Ct principle and how it can be used
- an appreciation of how to develop a disinfection strategy.

Pitched at Masters degree level, the material is suitable for graduates in a relevant subject or for those with more than five years of professional experience in the area. The

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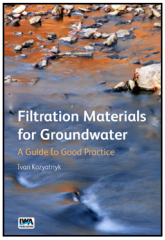
course is relevant to scientific, engineering, operational and regulatory personnel, with an international audience in mind.

March 2016 • 90 pages • Paperback
ISBN: 9781780408088
Ebook ISBN: 9781780408095
Non Members Price: £75.00/US$128.00/€101.00
IWA Members Price: £56.00/US$95.00/€76.00

Water Resources & Environment

Filtration Materials for Groundwater
A Guide to Good Practice
Author: Ivan Kozyatnyk



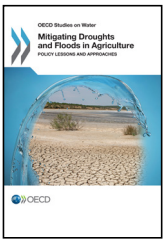
Groundwater is a source for drinking and industrial water supply and pollution created by active industrial sites often causes social, health, and environmental problems. This groundwater eventually drains into adjacent water sources. *Filtration Materials for Groundwater: A Guide to Good Practice* presents the up-to-date technology of purification of polluted ground water, its treatment for industrial and human needs and the remediation of polluted sites.

The book examines types of pollutants in groundwater including the main inorganic and organic pollutants and their behaviour and filtration materials for water treatment and principles of their choice. It shows how to choose suitable filtration materials according to targeted compounds and estimate the efficiency of modern ongoing facilities for groundwater treatment and polluted sites remediation.

June 2016 • 144 pages • Paperback
ISBN: 9781780406992
Ebook ISBN: 9781780407005
Non Members Price: £79.00/US$142.00/€107.00
IWA Members Price: £59.00/US$107.00/€80.00

Water Resources & Environment

Mitigating Droughts and Floods in Agriculture: Policy Lessons and Approaches
Authors: Organisation for Economic Co-Operation and Development (OECD)



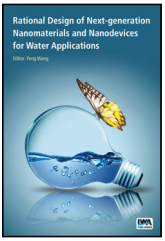
Climate change is expected to increase the frequency and magnitude of extreme weather events, notably of droughts and floods to which the agriculture sector is particularly exposed. While agricultural productivity growth and policy development have allowed it to better cope with these risks and reduce overall impacts on the sector and commodity markets, there is substantial room to improve policy responses and co-ordinate across policy domains, including with respect to water rights and allocation, weather and hydrological information, innovation and education, and insurance and compensation schemes.

This title belongs to the OECD Report Series

April 2016 • 74 pages • Paperback
ISBN: 9781780408132
Ebook ISBN: 9781780408149
Non Members Price: £25.00/$45.00 /€34.00
Members Price: £19.00/$34.00 /€26.00

Water Resources & Environment

Rational Design of Next-generation Nanomaterials and Nanodevices for Water Applications
Author: Peng Wang



Despite the fact that nanotechnology has been present for a few decades, there is a big gap between how nanotechnology is perceived and what nanotechnology can truly offer in all sectors of water. The question to be answered is 'what more can we expect from nanotechnology in the water field'? The rational nano-design starts with well-defined problem definitions, necessitates interdisciplinary approaches, involves 'think-outside-the-box', and represents the future growth point of environmental nano technology. This book promotes the concept of rational nano design and demonstrates its creativity, innovation, and excitement.

Each of the book contributors is world-renowned expert in the burgeoning field of rational nano-design for applications. *Rational Design of Next-generation Nanomaterials and Nanodevices for Water Applications* is intended for undergraduates, graduates, scientists and professionals in the fields of environmental science, material science, chemistry, and chemistry engineering. It provides coherent and good material for teaching, research, and professional reference.

August 2016 • 156 pages • Paperback
ISBN: 9781780406855
Ebook ISBN: 9781780406862
Non Members Price: £85.00/US$145.00/€115.00
IWA Members Price: £64.00/US$109.00/€86.00

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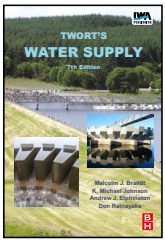
Water Resources & Environment

Twort's Water Supply
Seventh Edition
Authors: Malcolm J. Brandt, K. Michael Johnson, Andrew J. Elphinston and Don D. Ratnayaka



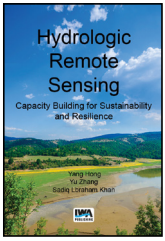
Twort's Water Supply, Seventh Edition, provides the latest tools and techniques to meet engineering challenges over dwindling natural resources. The book has expanded coverage of waste and sludge disposal, energy and sustainability, and new chapters on intakes, chemical storage, handling, and sampling.
This new edition reflects the latest WHO, European, UK, and US standards, including the European Water Framework Directive.
This book is essential reading for environmental engineers and technicians, civil engineers and technicians and anyone working in water engineering.

This title is co-published with Elsevier

October 2016 • 800 pages • Hardback
ISBN: 9781780406411
Non Members Price: £61.00/US$104.00/€82.00
IWA Members Price: £46.00/US$78.00/€62.00

Water Resources & Environment

Hydrologic Remote Sensing
Capacity Building for Sustainability and Resilience
Authors: Yang Hong, Yu Zhang and Sadiq Lbraham Khan



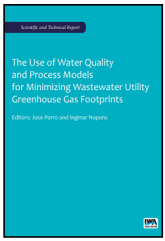
Environmental remote sensing plays a critical role in observing key hydrological components such as precipitation, soil moisture, evapotranspiration and total water storage on a global scale. As water security is one of the most critical issues in the world, satellite remote sensing techniques are of particular importance for emerging regions which have inadequate in-situ gauge observations. This book reviews multiple remote sensing observations, the application of remote sensing in hydrological modeling, data assimilation and hydrological capacity building in emerging regions.

This title is co-published with CRC Press

September 2016 • 496 pages • Hardback
ISBN: 9781780408101
Non Members Price: £71.00/US$128.00/€96.00
IWA Members Price: £53.00/US$95.00/€72.00

Water Resources & Environment

The Use of Water Quality and Process Models for Minimizing Wastewater Utility Greenhouse Gas Footprints
Editors: Jose Porro and Ingmar Nopens



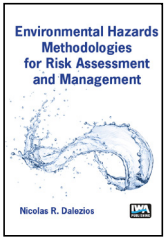
The Use of Water Quality and Process Models for Minimizing Wastewater Utility Greenhouse Gas Footprints provides an understanding of the processes that are responsible for the major contributions to GHG emissions from WWTP and sewer systems (e.g. heterotrophic denitrification, autotrophic nitrification, autotrophic denitrification, methanogenesis). This knowledge is translated into mathematical models that can be embedded in system/plant-wide models allowing multi-criteria optimisation.

This tile belongs to Scientific and Technical Report Series

February 2017 • 200 pages • Paperback
ISBN: 9781780408262
Ebook ISBN: 9781780408279
Non Members Price: £89.00/$160.00 /€120.00
Members Price: £67.00/$121.00 /€91.00

Water Resources & Environment

Environmental Hazards Methodologies for Risk Assessment and Management
Author: Nicolas R. Dalezios



Environmental Hazards Methodologies for Risk Assessment and Management emphasises methodological approaches and procedures of the three main components in the study of environmental hazards, namely forecasting; nowcasting (before), monitoring (during) and assessment (after), based on geoinformatic technologies and data and simulation through examples and case studies.

Environmental Hazards Methodologies for Risk Assessment and Management covers hydrological hazards (floods, droughts, storms, hail, desertification), biophysical hazards (frost, heat waves, epidemics, forest fires), geological hazards (landslides, snow avalanches), tectonic hazards (earthquakes, volcanoes), and technological hazards.

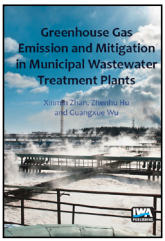
December 2016 • 550 pages • Paperback
ISBN: 9781780407128
Ebook ISBN: 9781780407135
Non Members Price: £145.00/US$261.00/€196.00
IWA Members Price: £109.00/US$196.00/€147.00

* For Ebook prices please see page 2

Water Resources & Environment

Greenhouse Gas Emission and Mitigation in Municipal Wastewater Treatment Plants

Authors: Xinmin Zhan, Zhenhu Hu and Guangxue Wu



Greenhouse Gas Emission and Mitigation in Municipal Wastewater Treatment Plants summarizes the recent development in studies of greenhouse gas emissions (N2O, CH4 and CO2) in Municipal Wastewater Treatment Plants, (MWWTPs). It also summarizes the development in life cycle assessment on Greenhouse Gas, (GHG) emissions in consideration of the energy usage in MWWTPs. The strategies in mitigating GHG emissions are discussed and the book provides an overview for researchers, students, water professionals and policy makers on GHG emission and mitigation in MWWTPS and industrial wastewater treatment processes. The book is a valuable resource for undergraduate and postgraduate students in water, climate and energy areas.

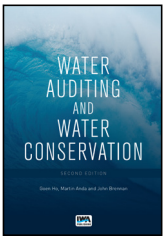
March 2017 • 150 pages • Paperback
ISBN: 9781780406305
Ebook ISBN: 9781780406312
Non Members Price: £89.00/US$160.00/€120.00
IWA Members Price: £67.00/US$121.00/€90.00

Water Resources & Environment

Water Auditing and Water Conservation

Second Edition

Authors: Goen Ho, Martin Anda and John Brennan



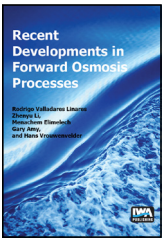
Water auditing is a method of quantifying water flows and quality in simple or complex systems, with a view to reducing water usage and often saving money on otherwise unnecessary water use. This new edition is updated with recent information and particularly examines the impact of climate change and revises material throughout on environmental auditing. The relationship between water accounting and financial accounting is introduced and advances in ultrasonic measurement, smart meters, wireless data transmission and remote monitoring are added. Changes and trends in legislation for water conservation and water reuse are included and also the use of smart meters to interpret water consumption data including leak detection. Three of the chapters are being re-organized and integrated under a wider umbrella of water conservation in mining and mineral processing; gold mining is now included as an arena. There are brand new chapters on water conservation in oil refining and on fertilizer manufacture.

December 2016 • 336 pages • Paperback
ISBN: 9781780405193
Ebook ISBN: 9781780405209
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Water Resources & Environment

Recent Developments in Forward Osmosis Processes

Editors: Rodrigo Valladares, Zhenyu Li, Menachem Elimelech, Gary Amy and Hans Vrouwenvelder



Contents:
Introduction; Water Recovery; The Management of Urban Runoff in Coastal Regions; Water Harvesting from Municipal Wastewater; Indirect Desalination of Seawater; Fouling; Fouling Propensity During Desalination of Seawater; NOM And TEP Fouling; Draw Solute Induced Calcium Carbonate Scaling; Impact of Spacer on Biofouling; Cleaning Protocol in Wastewater Reuse; Rejection of Pollutants; Rejection of Micropollutants; Rejection of Boron; Membranes and Draw Solution; Draw Solutions; High Performance Forward Osmosis Membrane; Modelling; Modeling Water Flux; Modeling Concentration Polarization and Spacer Influence; Outlook; Life Cycle Cost Assessment; Niches in Seawater Desalination and Wastewater Reuse.

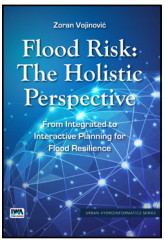
December 2016 • 300 pages • Paperback
ISBN: 9781780408118
Ebook ISBN: 9781780408125
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Water Resources & Environment

Flood Risk

The Holistic Perspective

Author: Zoran Vojinovic



Flood Risk: The Holistic Perspective provides exposure to the complexity of flood-related issues and illustrates diversity of multiple points of view and elaborates on the history of holistic thinking with connection to the flood resilience process.
It covers the discussion of the holistic risk governance approach and describes the Green Cities Initiative as well as the various risk assessment practices. The root causes of floods in the Pasig-Marikina River Basin are described and the key issues and challenges from 2011 Thailand floods are considered. Finally, the key aspects concerning urban stormwater management practice in Beijing, China are presented.

* For Ebook prices please see page 2

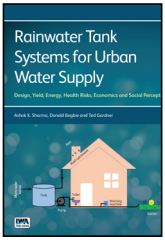
This title belongs to the Urban Hydroinformatics Series

March 2015 • 296 pages • Hardback
ISBN: 9781780405322
Ebook ISBN: 9781780405339
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Water Resources & Environment

Rainwater Tank Systems for Urban Water Supply

Authors: Ashok K. Sharma, Donald Begbie and Ted Gardner



Rainwater tank systems have been widely adopted across the world to provide a safe local source of water in underdeveloped rural areas, a substitution for mains water for non potable end uses in water stressed urban areas, as well as providing flooding control in monsoonal climates such as Korea, or combined sewer systems such as Germany.

The approaches and methodologies included in *Rainwater Tank Systems for Urban Water Supply* inform and validate research programs, and provide insights on the expected performance and potential pitfalls of the adoption of rainwater tanks systems including: actual harvested yield and resulting mains water savings, optimal sizing for rainwater storages and roof collection systems, expected water quality and implications for managing public health risks, modelling tools available for decision support, operation and management approaches of a decentralised asset at the household scale and community acceptance.

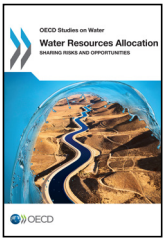
May 2015 • 372 pages • Paperback
ISBN: 9781780405353
Ebook ISBN: 9781780405360
Non Members Price: £105.00/US$189.00/€142.00
IWA Members Price: £79.00/US$142.00/€106.00

Water Resources & Environment

Water Resources Allocation

Sharing Risks and Opportunities

Authors: Organisation for Economic Co-Operation and Development (OECD)



Water resources allocation determines who is able to use water resources, how, when and where. It directly affects the value (economic, ecological, socio-cultural) that individuals and society obtain from water resources. This report provides an overview of how allocation works in a range of countries and how the performance of allocation arrangements can be improved to adjust to changing conditions. It provides practical policy guidance for water allocation which can be used to assess the performance of current arrangements and manage the transition to improved regimes.

This title belongs to the OECD Report Series

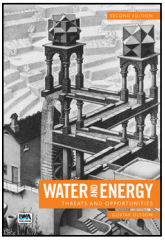
May 2015 • 144 pages • Paperback
ISBN: 9781780407616
Ebook ISBN: 9781780407623
Non Members Price: £25.00/US$45.00/€34.00
IWA Members Price: £19.00/US$34.00/€25.00

Water Resources & Environment

Water and Energy

Threats and Opportunities – Second Edition

Author: Gustaf Olsson



Rapid and important developments in the area of energy-water nexus over the last two to three years have been significant. This new edition of *Water and Energy: Threats and Opportunities* is timely and continues to highlight the inextricable link between water and energy, providing an up-to-date overview of the subject with helpful detailed summaries of the technical literature.

Reviews & Endorsements

"Professor Olsson…explores the water-energy nexus in detail, and carefully discusses its many implications, including for food production and its connection to global climate change. He properly and repeatedly emphasizes the important message that water and energy issues must be addressed together if society is to make wise and efficient use of these critical resources. Given its comprehensive scope and careful scholarship, the book will serve as a valuable addition to the libraries of students, researchers, practitioners, and government officials at all levels. In its expanded and updated second edition it adds a clear and comprehensive discussion of the important subject of fracking which has recently emerged as a major public issue."
DR. ALLAN R. HOFFMAN, Senior Analyst, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy, Washington, DC.

"This second edition of the book is much more than a revision of data, style and contents. It extends significantly some key topics, and adds new information about current issues in the nexus of water and energy, such as water footprint, fracking, oil exploitation in the Arctic Sea, and many others. One of the most brilliant aspects of Gustaf's writing is his ability to pay attention and question unobtrusively our role as citizens, to face the complexity of these environmental aspects and their implications. Gustaf argues the situation with authority, summoning up examples and illustrations that are helpful in challenging our knowledge, but also our thinking, feeling and behaving."

* For Ebook prices please see page 2

PROFESSORS MANEL POCH, JOAQUIM COMAS and IGNASI RODRIGUEZ-RODA, Catalan Institute for Water Research and LEQUiA - University of Girona, Catalonia.

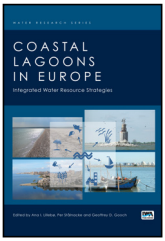
June 2015 • 496 pages • Hardback
ISBN: 9781780406930
Ebook ISBN: 9781780406947
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00
Student Paperback Price: £54.00/$97.00/€73.00
ISBN: 9781780407326

Water Resources & Environment

Coastal Lagoons in Europe

Integrated Water Resource Strategies

Editors: Ana I. Lillebø, Per Stalnacke and Geoffrey D. Gooch



Coastal Lagoons in Europe focuses on addressing Pan-European management challenges from the context of the perspectives of Policy, Environment and Modelling. Four case study lagoons in different geographical locations in Europe provide examples of some of the practical experiences and results around these challenges.

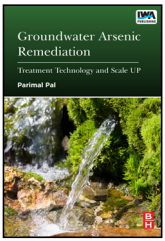
This title belongs to the Water Research Series

July 2015 • 256 pages • Hardback
ISBN: 9781780406282
Ebook ISBN: 9781780406299
Non Members Price: £99.00/US$178.00/€134.00
IWA Members Price: £74.00/US$133.00/€100.00

Water Resources & Environment

Groundwater Arsenic Remediation

Author: Parimal Pal



Groundwater Arsenic Remediation: Treatment Technology and Scale UP provides the latest breakthrough groundwater treatment technologies and modelling and simulation methods for project scale up and eventually field deployment in locations which lack the proper central water distribution system to ensure arsenic free groundwater.

This title is co-published with Elsevier.

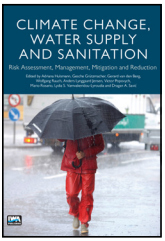
July 2015 • 368 pages • Hardback
ISBN: 9781780406725
Non Members Price: £72.00/US$130.00/€97.00
IWA Members Price: £54.00/US$97.00/€73.00

Water Resources & Environment

Climate Change, Water Supply and Sanitation

Risk Assessment, Management, Mitigation and Reduction

Authors: Adriana Hulsmann, Gesche Grützmacher, Gerard van den Berg, Wolfgang Rauch, Anders Lynggaard-Jensen, Victor Popovych, Mario Rosario, Lydia S. Vamvakeridou-Lyroudia and Dragan A. Savic



Climate Change, Water Supply and Sanitation: Risk Assessment, Management, Mitigation and Reduction pulls together the final outcomes and recommendations from the PREPARED project that originated from the WSSTP (Water Supply and Sanitation Technology Platform) thematic working group Sustainable Water Management in Urban areas. The PREPARED project confirms and demonstrates the technological preparedness of water supply and sanitation systems of ten cities in Europe and also Melbourne and Seattle to adapt to the expected impacts of climate change.

Contents:

Introduction; Integrated Water Resource Management and Investigation of New Water Resources; Adaptation of Water Supply Systems; Storm Water Management; Adaptation of Sanitation Systems; Adaptation of Operation and Management

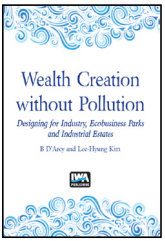
August 2015 • 408 pages • Paperback
ISBN: 9781780404998
Ebook ISBN: 9781780405001
Non Members Price: £145.00/US$261.00/€196.00
IWA Members Price: £109.00/US$196.20/€147.00

Water Resources & Environment

Wealth Creation without Pollution

Designing for Industry, Ecobusiness Parks and Industrial Estates

Editors: Brian D'Arcy and Lee-Hyung Kim



Wealth Creation without Pollution explores how modern industries are striving towards more sustainable practices, with case studies of impacts and of greener industry practices, as well as philosophical and policy papers. The role of regulators, planners and government in fostering a greener industrial base is also examined. This book is a valuable text book for environmental science and engineering students and a useful resource for industrial architects, developers and practitioners.

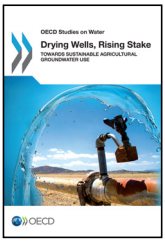
* For Ebook prices please see page 2

December 2016 • 210 pages • Paperback
ISBN: 9781780408330
Ebook ISBN: 9781780408347
Non Members Price: £89.00/$160.00 /€120.00
Members Price: £67.00/$121.00 /€91.00

Water Resources & Environment

Drying Wells, Rising Stakes – Towards Sustainable Agricultural Groundwater Use

Authors: Organisation for Economic Co-Operation and Development (OECD)



Groundwater has provided great benefits to agriculture irrigation in semi-arid OECD countries but its intensive use beyond recharge in certain regions has depleted resources and generated significant negative environmental externalities. This report provides a characterization of the diversity of groundwater systems, reviews policies in OECD countries, and proposes a package of recommendations to ensure that groundwater can sustain its services to agriculture and contribute to climate change adaptation.

This title belongs to the OECD Report Series

March 2016 • 180 pages • Paperback
ISBN: 9781780407968
Ebook ISBN: 9781780407975
Non Members Price: £25.00/US$45.00/€34.00
IWA Members Price: £19.00/US$34.00/€26.00

Water Resources & Environment

Towards a Renewable Future: Assessing Resource Recovery as a Viable Treatment Alternative

State of the Science and Market Assessment

Authors: Ronald Latimer and Wendell Khunjar

This title belongs to the WERF Research Report Series

September 2016 • 120 pages • Electronic book text
Ebook ISBN: 9781780407883
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Water Resources & Environment

Towards a Renewable Future: Assessing Resource Recovery as a Viable Treatment Alternative

Case Studies of Facilities Employing Extractive Nutrient Recovery Technologies

Authors: Ronald Latimer and Wendell Khunjar

This title belongs to the WERF Research Report Series

September 2016 • 120 pages • Electronic book text
Ebook ISBN: 9781780407920
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Water Resources & Environment

Greenhouse Nitrogen Emissions from Wastewater Treatment Operations: Phase II Molecular Level Through Whole Reactor Level Characterization

Author: Kartik Chandran

This title belongs to the WERF Research Report Series

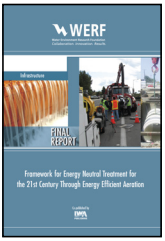
November 2016 • 60 pages • Electronic book text
Ebook ISBN: 9781780408057
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

* For Ebook prices please see page 2

Water Resources & Environment

Framework for Energy Neutral Treatment for the 21st Century through Energy Efficient Aeration

Authors: Diego Rosso and Andrew Shaw



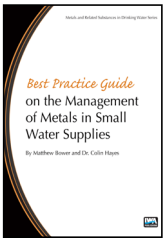
This title belongs to the WERF Research Report Series

April 2015 • 80 pages • Electronic book text
Ebook ISBN: 9781780406794
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Water Supply & Treatment

Best Practice Guide on the Management of Metals in Small Water Supplies

Authors: Matthew Bower and Colin Hayes



This Best Practice Guide aims to share best practice and experience from around the world on a practical level. It looks at general issues relating to small supplies and ways of managing these, adopting a Water Safety Plan approach to deliver sound and lasting improvements to quality. Varied case-studies help to illustrate issues and ways in which they have been resolved.

This title belongs to the Best Practice Guides on Metals and Related Substances in Drinking Water series

April 2016 • 148 pages • Paperback
ISBN: 9781780406398
Ebook ISBN: 9781780406404
Non Members Price: £79.00/US$142.00/€107.00
IWA Members Price: £59.00/US$107.00/€80.00

Water Resources & Environment

Transforming Our Cities

High-Performance Green Infrastructure

Author: Marcus Quigley

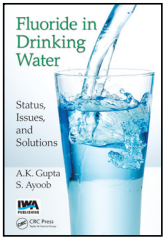
This title belongs to the WERF Research Report Series

July 2015 • 120 pages • Electronic book text
Ebook ISBN: 9781780406732
Non Members Price: £34.00/US$51.00/€38.00
IWA Members Price: £25.00/US$38.00/€28.00

Water Supply & Treatment

Fluoride in Drinking Water: Status, Issues and Solutions

Authors: A. K. Gupta and S. Ayoob



Fluoride in Drinking Water: Status, Issues and Solutions aims to highlight the dimensions of the problem of fluoride pollution and suggests scientific solutions. The global status of fluoride pollution is conceptually presented in this book. Most of the recent scientific studies undertaken the world over, are carefully summarized and tabulated so as to generate a global database on the status of fluoride pollution. Further, the health issues and associated human stress effects are scientifically discussed. The conventional approaches used for defluoridation in the fluoride endemic areas are discussed in detail, highlighting their limitations. A comparative evaluation of the technologies used for defluoridation is presented as well.

This title is co-published with CRC Press

May 2016 • 232 pages • Hardback
ISBN: 9781780407944
Non Members Price: £53.00/US$95.00/€72.00
IWA Members Price: £40.00/US$72.00/€54.00

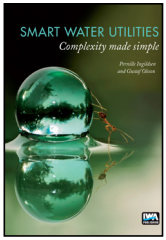
* For Ebook prices please see page 2

Water Supply & Treatment

Smart Water Utilities

Complexity Made Simple

Authors: Pernille Ingildsen and Gustaf Olsson



Smart Water Utilities: Complexity Made Simple provides a framework for Smart Water Utilities based on a M-A-D (Measurement-Analysis-Decision). This enables the organisation and implementation of "Smart" in a water utility by providing an overview of supporting technologies and methods.

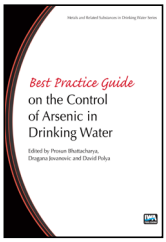
The book presents an introduction to methods and tools, providing a perspective of what can and could be achieved. It provides a toolbox for all water challenges and is essential reading for the Water Utility Manager, Engineer and Director and for Consultants, Designers and Researchers.

May 2016 • 300 pages • Paperback
ISBN: 9781780407579
Ebook ISBN: 9781780407586
Non Members Price: £79.00/US$142.00/€107.00
IWA Members Price: £59.00/US$107.00/€80.00

Water Supply & Treatment

Best Practice Guide on the Control of Arsenic in Drinking Water

Authors: Prosun Bhattacharya, Dragana Jovanovic and David Polya



Best Practice Guide on the Control of Arsenic in Drinking Water focuses on the key aspects of risk assessment, management and communication relevant to higher levels of arsenic in drinking water, which are the geological factors, the extent of arsenic occurrence, total exposure of arsenic and the role of drinking water, including regulatory aspects as well as technical (treatment) issues.

The referred practices conform to the recommendations of the World Health Organisation (WHO), the European Food Safety Authority (EFSA) and the US Environmental Protection Agency (EPA).

This title belongs to the Best Practice Guides on Metals and Related Substances in Drinking Water series

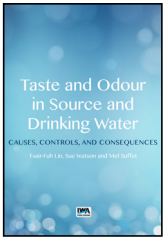
December 2016 • 120 pages • Paperback
ISBN: 9781843393856
Ebook ISBN: 9781780404929
Non Members Price: £60.00/US$108.00/€81.00
IWA Members Price: £45.00/US$81.00/€61.00

Water Supply & Treatment

Taste and Odour in Source and Drinking Water

Causes, Controls, and Consequences

Authors: Tsair-Fuh Lin, Sue Watson and I. H. (Mel) Suffet



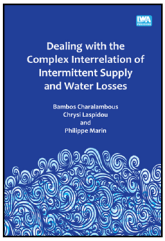
This book provides an updated evaluation of the characterization and management of taste and odour (T&O) in source and drinking waters. Authored by international experts from the IWA Specialist Group on Off-flavours in the Aquatic Environment, the book represents an important resource that synthesizes current knowledge on the origins, mitigation, and management of aquatic T&O 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.

February 2017 • 250 pages • Paperback
ISBN: 9781780406657
Ebook ISBN: 9781780406664
Non Members Price: £95.00/US$171.00/€128.00
IWA Members Price: £71.00/US$128.00/€96.00

Water Supply & Treatment

Dealing with the Complex Interrelation of Intermittent Supply and Water Losses

Authors: Bambos Charalambous, Chrysi Laspidou and Philippe Marin



This book deals with the many challenges faced by water utilities in an intermittent water supply situation and how transitioning from Intermittent Water Supply to continuous 24/7 supply can be successfully implemented in a sustainable manner. Issues pertaining to the numerous problems associated with the management and operation of distribution networks under Intermittent Water Supply as well as the critical challenges entailed in transitioning to 24/7 is presented and discussed. The main challenges involved in managing water losses in systems with intermittent supply are dealt with and the process of transitioning from intermittent water supply to a continuous supply analysed. The framework needed as well as the requisites for a successful transition are analysed providing examples of successful application.

* For Ebook prices please see page 2

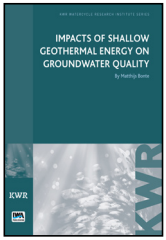
This title belongs to the Scientific and Technical Report Series

November 2016 • 150 pages • Paperback
ISBN: 9781780407067
Ebook ISBN: 9781780406664
Non Members Price: £85.00/US$153.00/€115.00
IWA Members Price: £64.00/US$115.00/€86.00

Water Supply & Treatment

Impacts of Shallow Geothermal Energy on Groundwater Quality

Author: Matthijs Bonte



The use of shallow geothermal energy (SGE) systems to acclimatize buildings has increased exponentially in the Netherlands and worldwide. In certain areas, SGE systems are constructed in aquifers and also used for drinking water supply raising the question of potential groundwater quality impact. Based on the results of this research, guidelines are presented for monitoring and permitting of SGE systems. The book is a useful resource for regulators of these systems, water companies and installers of the SGE systems.

This title belongs to the KWR Watercycle Research Institute Series

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ISBN: 9781780406817
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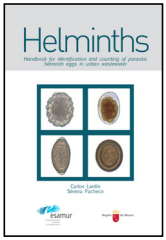
Water Supply & Treatment

Helminths

Handbook for Identification and Counting of Parasitic Helminth Eggs in Urban Wastewater

Author: Carlos Lardin Mifsut



Helminths: Handbook for Identification and Counting of Parasitic Helminth Eggs in Urban Wastewater is the result of several studies in sanitation and wastewater treatment. The handbook is a useful tool for anyone who is involved in preserving water quality. The identification of parasitic helminth eggs has been simplified with an easy identification key and specific identifying sheets in order to achieve the highest standards within this indicative parameter in water quality.

February 2015 • 115 pages • Paperback
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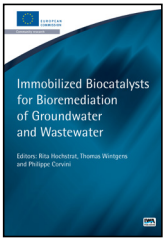
IWA Members Price: £67.00/US$121.00/€90.00

Water Supply & Treatment

Immobilised Biocatalysts for Bioremediation of Groundwater and Wastewater

Authors: Rita Hochstrat, Thomas Wintgens and Philippe Corvini



The European project MINOTAURUS explored innovative bio-processes to eliminate emerging and classic organic pollutants. These bio-processes are all based on the concept of immobilization of biocatalysts (microorganisms and enzymes) and encompass bioaugmentation, enzyme technology, rhizoremediation with halophytes, and a bioelectrochemical remediation process.*This title belongs to the European Water Research Series*

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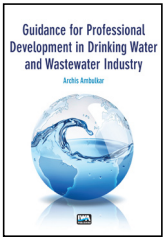
Guidance for Professional Development in Drinking Water and Wastewater Industry

Author: Archis Ambulkar



Guidance for Professional Development in Drinking Water and Wastewater Industry recognises the water practitioners journey from the novice student phase all the way to an established expert position, both on technological and professional fronts. This book reviews various career phases and helps realise purpose, motivation, responsibilities and milestones for each professional stage. This guide helps the reader to understand a step-by-step professional development process in the industry and at the same time receive key inputs to minimise or avoid common mistakes related to the drinking water or wastewater occupations

February 2015 • 173 pages • Paperback
ISBN: 9781780406961
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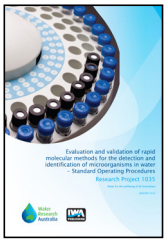
Water Supply & Treatment

Evaluation and Validation of Rapid Molecular Methods for the Detection and Identification of Microorganisms in Water

Standard Operating Procedures

Authors: Paul Monis, Nic Reid, Australian Water Quality Centre, South Australian Water Corporation



Molecular techniques are emerging as a rapid and powerful approach for microorganism detection. This project reviewed the efficacy of PCR assays for Cryptosporidium, Microcystis, adenovirus and ammonia oxidising bacteria, as well as candidate techniques for DNA extraction and inhibitor removal.

This book is co-published with Water Research Australia.

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Water Supply & Treatment

MT-PCR – A Rapid, Reliable and Effective Tool for Assessing Toxic 'Algal' Blooms in Victorian Water Supplies

Aiding Protection and Preservation

Authors: Aaron Jex, Louise Baker and Raechel Littman

This project addressed a need for a sensitive, accurate and reliable testing method to aid assessment of the toxicity of algal blooms and assist water management. Increasingly, diagnostic dilemmas are resolved through the use of DNA-based technologies which often provide high sensitivity and specificity and are efficient both in terms of costs and time.

This book is co-published with Water Research Australia

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ISBN: 9781780407555
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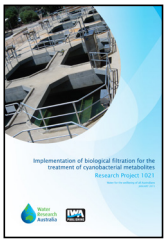
Implementation of Biological Filtration for the Treatment of Cyanobacterial Metabolites

Authors: Emma Sawade, Lionel Ho, Daniel Hoefel, Gayle Newcombe, Australian Water Quality Centre, South Australian Water Corporation



Specific issues investigated in this project were: identifying the most effective substrate for optimum biofilm formation, and the range of operating conditions for optimum removals to be achieved; developing a standard suite of laboratory tests, both simulated filtration tests and genetic tests, to identify the potential of an existing filter to remove cyanobacterial metabolites; better understanding of the lag period prior to the onset of degradation of several metabolites; and the feasibility of artificially inoculating or "seeding" filters to enhance removal of the cyanobacterial metabolites.

This book is co-published with Water Research Australia

June 2015 • 88 pages • Paperback
ISBN: 9781780407531
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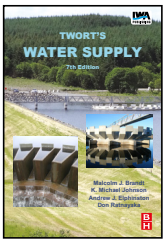
Twort's Water Supply

Seventh Edition

Authors: Malcolm J. Brandt, K. Michael Johnson, Andrew J. Elphinston and Don D. Ratnayaka



Twort's Water Supply, Seventh Edition, provides the latest tools and techniques to meet engineering challenges over dwindling natural resources. The book has expanded coverage of waste and sludge disposal, energy and sustainability, and new chapters on intakes, chemical storage, handling, and sampling.

This new edition reflects the latest WHO, European, UK, and US standards, including the European Water Framework Directive.

This book is essential reading for Environmental Engineers and Technicians, Civil Engineers and Technicians and anyone working in water engineering.

This is co-published with Elsevier/Butterworth Heinemann

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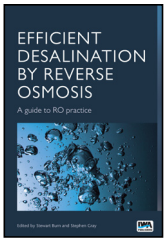
Water Supply & Treatment

Efficient Desalination by Reverse Osmosis
A Guide to RO Practice
Editors: Stewart Burn and Stephen Gray



Efficient Desalination by Reverse Osmosis recognises that desalination by reverse osmosis has progressed significantly over the last decades and provides an up to date review of the state of the art for the reverse osmosis process. It covers issues that arise from desalination operations, environmental issues and ideas for research that will bring further improvements in this technology.

Efficient Desalination by Reverse Osmosis provides a complete guide to best practice from pre-treatment through to project delivery.

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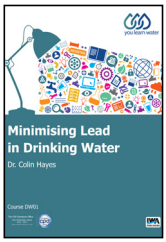
Minimising Lead in Drinking Water
Author: Colin Hayes



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- The ability to undertake a diagnostic assessment.
- The knowledge of how to apply risk management principles
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March 2016 • 80 pages • Paperback
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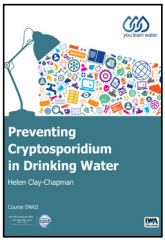
Preventing Cryptosporidium in Drinking Water
Author: Helen Clay-Chapman



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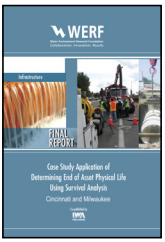

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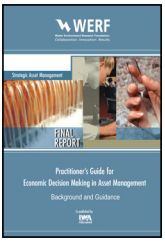
A Practitioner's Guide to Economic Decision Making in Asset Management

Background and Guidance

Author: David Marlow



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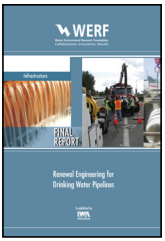
Renewal Engineering for Drinking Water Pipelines

Synthesis Report

Author: Sunil K. Sinha



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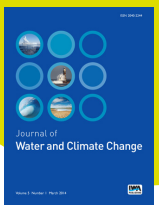

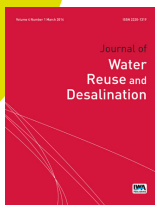

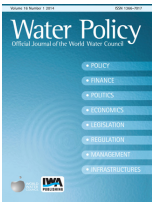

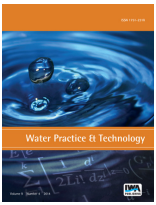

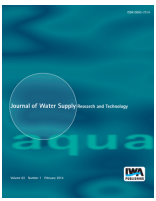

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