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Wastewater and
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The *Open Water Journal* is an open access journal that publishes original, peer-reviewed, internationally relevant articles covering all aspects of 21st century water research: fundamental science, application of science and technology and impact of societal and political and economic factors. It considers research papers, critical reviews and short communications; multi-disciplinary articles are

encouraged.

Read the editorial at <http://doi.org/10.2166/owj.2016.100>

- Integrated catchment management covering all aspects of hydrology, limnology, water quality, interfacial (sediments/water/air) science and planning and stakeholder management;
- Provision of alternative water sources including (but not limited to) water recycling and desalination, multiple barriers, impact of regulatory and political aspects, stakeholder engagement;
- Emerging contaminants covering algal blooms, trace organics, diffuse pollution, advanced monitoring, analytical science, data management, regulation and standards, risk management, customer perception;
- Provision of safe water and sanitation in developing communities and disaster response contexts, education, appropriate technology, implementation for given political and socio-economic frameworks;
- Development of water sensitive cities that encompass stormwater management, water recycling and reuse, water footprint, cultural practices, economics;
- Circular economy investigations that demonstrate advances in the minimisation of waste and pollution from the water cycle, covering energy, nutrient, biochemicals and water recovery and hence, process efficiency, carbon neutral treatment plants, associated economics, public perception and multiple barriers to close the circular value and/or supply chains;
- Water infrastructure including ageing infrastructure, replacement, asset management, sustainable investment, emergency response and preventative maintenance;
- The development and optimisation of advanced technologies including treatment and resource recovery processes, process control and water quality monitoring technologies and data management systems;
- Building capacity and capability in the water industry in all communities, including developing contexts, role of gender, future demand, public engagements and citizen science;
- All aspects of fundamental science underpinning the water cycle (natural and engineered) will be considered including aquatic chemistry, physico-chemical interactions, sustainable chemicals, biosciences and biotechnology, new materials, etc.

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Water Quality Research Journal

Official Journal of the Canadian Association on Water Quality

Editors:

R. Droste, University of Ottawa, Canada
 P. Vanrolleghem, Université Laval, Canada



The *Water Quality Research Journal* is a forum for original research dealing with the aquatic environment, and should report new and significant findings that advance the understanding of the field. Critical review articles are especially encouraged.

ISSN: 1201-3080; vol.52, 4 issues, 2017
Institutional rate (print and online access):
£573 / US\$885 / €858

Journal of Water, Sanitation and Hygiene for Development

Editor-in-Chief:

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 Meera Mehta, CEPT University, India
 Darren Saywell, Plan International USA
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The *Journal of Water, Sanitation and Hygiene for Development* is a peer reviewed journal devoted to the dissemination of high-quality information on the science, policy and practice of drinking-water supply, sanitation and hygiene at local, national and international levels.

ISSN: 2043-9083; vol.7, 4 issues, 2017
Institutional rate (print and online access):
£1,102 / US\$1,820 / €1,381

Journal of Water Reuse and Desalination

Editors:

Blanca Jiménez Cisneros, UNESCO, France
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 How Yong Ng, National University of Singapore, Singapore



Journal of Water Reuse and Desalination: Goes Open Access

IWA Publishing is pleased to announce that as of 2017 the *Journal of Water Reuse and Desalination* will be fully Open Access.

All articles within the journal have undergone peer review and upon publication are immediately and permanently free for everyone to read and download.

First published in 2011, the *Journal of Water Reuse and Desalination* is an international journal publishing peer-reviewed papers on the science and technology, policy, regulation, social and economic aspects and applications of sustainable sources of water to cope with water scarcity, including new sources of non-conventional water. *Journal of Water Reuse and Desalination* publishes 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. The journal is included within Clarivate Analytics', formerly the IP & Science business of Thomson Reuters, products and services, including Science Citation Index/Reports, with an Impact Factor of 0.409.

The move to Open Access for the *Journal of Water Reuse and Desalination* is a step towards the journal's journey to develop a wide range of sustainable publishing avenues to suit the needs of the STM community.

ISSN: 2220-1319; vol.7, 4 issues, 2017

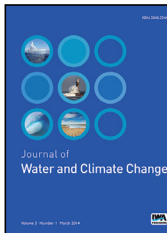
Institutional rate (print):

£893 / US\$1,413 / €1,119

Journal of Water & Climate Change

Editors:

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Journal of Water and Climate Change publishes refereed research and practitioner papers on all aspects of water science, technology, management and innovation in response to climate change, with emphasis on reduction of energy usage.

ISSN: 2040-2244; vol.8, 4 issues, 2017

Institutional rate (print and online access):

£1,005 / US\$1,590 / €1,260

Hydrology Research

An International Journal

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The German Hydrological Society (DHG)

The Italian Hydrological Society (IHS)

Editors:

Chong-Yu Xu, University of Oslo, Norway

Nevil Quinn, University of the West of England, Bristol, UK



Hydrology Research publishes articles within all fields of hydrology in its widest sense. While emphasis is placed on studies of the hydrological cycle, the journal also covers the physics and chemistry of water.

Hydrology Research is intended to be a link between basic hydrological research and practical application of scientific results within the broad field of water management.

ISSN: 0029-1277; vol.48, 6 issues, 2017

Institutional rate (print and online access):

£1,513 / US\$2,595 / €2,269

Journal of Water and Health

Editor in Chief:

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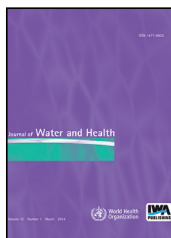
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Jatinder Sidhu, CSIRO, Australia



Journal of Water and Health is a peer-reviewed journal devoted to the dissemination of information on the health implications and control of waterborne microorganisms and chemical substances in the broadest sense. This includes microbial toxins, chemical quality and the aesthetic qualities of water.

ISSN: 1477-8920; vol.15, 6 issues, 2017

Institutional rate (print and online access):

£1,304 / US\$2,357 / €1,923

Journal of Hydroinformatics

Official Journal of the IAHR-IWA-IAHS Joint Committee on Hydroinformatics

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Journal of Hydroinformatics is a peer reviewed journal devoted to the application of information technology in the widest sense to problems of the aquatic environment. It promotes hydroinformatics as a cross-disciplinary field of study, combining technological, human-sociological and more general environmental interests, including an ethical perspective.

ISSN: 1464-7141; vol.19, 6 issues, 2017

Institutional rate (print and online access):

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Journal of Water Supply: Research and Technology-AQUA

Editors:

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Hsin-Hsin Tung, National Taiwan University, Taiwan



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.66, 8 issues, 2017

Institutional rate (print and online access):

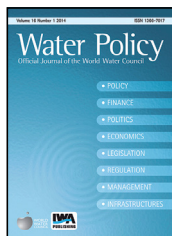
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Water Policy

Official Journal of the World Water Council

Editor-in-Chief:

Jerome Delli Priscoli, USA



Water Policy publishes analyses, reviews and debates on all policy aspects of water resources.

Examples of such topics are:

- Ecosystems, engineering, management and restoration
- Engineering and design
- River-basin and watershed management
- Multiple uses of water

- Pollution monitoring and control
- Management, use and sharing of trans-boundary waters, treaties and allocation agreements
- Capacity building
- Flood control and disaster management
- Groundwater remediation and the conjunctive use of groundwater and surface water
- Public participation, consensus building and confidence building
- Conflict management and negotiations of water resources
- Demand management
- Commercialization of water
- Integrated water resources management
- Allocation of risks among stakeholders.

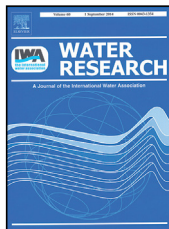
ISSN: 1366-7017; vol.19, 6 issues, 2017

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Water Research

Editor in Chief: Mark van Loosdrecht, Delft University of Technology, The Netherlands



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- Limnology of lakes, impoundments and rivers
- Solid and hazardous waste management
- Environmental restoration
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- Modelling techniques; public health and risk assessment.

Water Research is published in association with Elsevier Science.

ISSN: 0043-1354; 20 issues

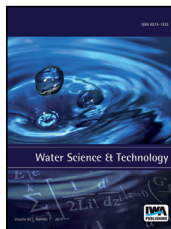
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Water Science and Technology publishes rigorously peer reviewed papers on all aspects of the science and technology of water pollution control and water quality management worldwide. This subject matter encompasses five broad areas:

- Wastewater treatment and transportation processes for stormwater and domestic, industrial and municipal effluents
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- Water reuse and aquatic environmental restoration
- Policy, strategy, control and management aspects of water quality.

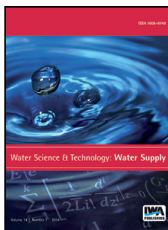
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WST aims at fast publication of early results on new findings and research directions concerning water.

ISSN: 0273-1223; vols.75-76, 24 issues, 2017
Institutional rate (print and online access):
£5,800 / US\$10,667 / €8,932

Water Science and Technology: Water Supply

Editor in Chief: Professor Wolfgang Rauch, University of Innsbruck, Austria



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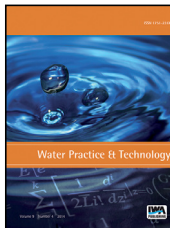
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The journal aims at fast publication of early results on new findings and research directions concerning water supply and management.

ISSN: 1606-9749; vol.17, 6 issues, 2017
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Editor in Chief: Professor Wolfgang Rauch, University of Innsbruck, Austria



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 - Practical "know-how" reports
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ISSN (Online): 1751-231X, vol.12, 2017

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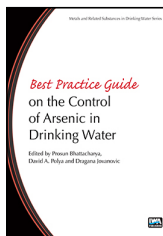
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Health Related Water Issues

Best Practice Guide on the Control of Arsenic in Drinking Water

Editors: Prosun Bhattacharya, Dragana Jovanovic and David Polya



This *Best Practice Guide on the Control of Arsenic in Drinking Water* arises from the knowledge collected by the European Research Network COST Action 637 involving 27 European countries and the USA. Besides the large number of important papers, reports and reviews already available on various aspects of arsenic occurrence in environment, water and food and related human exposure, this

book fills a gap in the field concerning assessment of risks, implications, challenges, and actions required by public health managers. It focuses only on the key aspects of risk assessment, management and communication relevant to higher levels of arsenic in drinking water, which are 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 *Best Practice Guide on the Control of Arsenic in Drinking Water* tries to raise public awareness on this subject, which seems to be low and risks are being underestimated in a number of regions. This is especially valid for Europe although less for other regions which are typically more contaminated with arsenic. The referred practices conform to the recommendations of the World Health Organisation (WHO), the European Food Safety Authority (EFSA) and the U.S. Environmental Protection Agency (EPA). It is a useful guide for drinking water suppliers, experts of municipalities, public health authorities, drinking water regulators and non-governmental organisations.

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

July 2017 • 250 pages • Paperback
ISBN: 9781843393856 • Ebook ISBN: 9781780404929
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IWA Members Price: £45.00/US\$81.00/€61.00
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Health Related Water Issues

Critical Control Point Assessment to Quantify Robustness and Reliability of Multiple Treatment Barriers of a DPR Scheme

Author: Ben Stanford



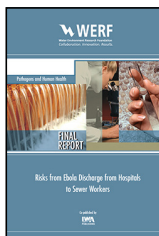
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Health Related Water Issues

Risks from Ebola Discharge from Hospitals to Sewer Workers

Authors: Kyle Bibby, Leonard Casson and Charles N. Haas



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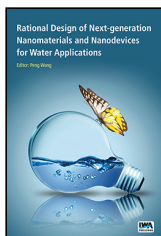
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Industry & Water

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 nanotechnology. However, it is still largely new to the educated public and even scientists and engineers in water fields. Therefore, it is the purpose of this book to promote the concept of rational nano-design and to demonstrate its creativity, innovation, and excitement.

This book presents a series of carefully selected rationally designed nano- materials/devices/surfaces, which represent drastically different, ground-breaking, and eye-opening approaches to conventional problems to embody the concept of nano-design and to illustrate its remarkable potential to change the face of the research in water industry in the future. 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\$153.00/€115.00
IWA Members Price: £64.00/US\$115.00/€86.00

Policy & Governance

Water Consumption, Tariffs and Regulation

Editors: Francesc Hernandez-Sancho and Maria Molinos-Senante



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.

The book is structured in three main parts. Part I presents tables and

figures relative to water consumption and sanitation status and focuses on water abstraction, water delivered, water consumption and the evolution of sewer connection and wastewater treatment.

Part II focuses on the analysis of water tariffs by investigating the structure of water tariffs by analysing the importance of the variable and fixed charge. It presents drinking water tariffs and illustrates the relationship between tariffs and GDP and also the size of the cities. Finally, charges in wastewater are dealt with country by country.

Part III analyses the main aspects relative to water regulation and describes the importance of private operators in the management of the water cycle. Information relative to the principles used to fix drinking water prices is presented with an assessment of access to public water services.

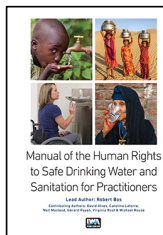
June 2017 • 200 pages • Paperback
ISBN: 9781780404677 • Ebook ISBN: 9781780404684
Non Members Price: £85.00/US\$153.00/€115.00
IWA Members Price: £64.00/US\$115.00/€86.00

* For Ebook prices please see page 2

Policy & Governance

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

Lead author: Robert Bos
 Contributing authors: David Alves, Carolina Latorre, Neil McCleod, Gérard Payen, Virginia Roaf and Michael Rouse



The Manual highlights the human rights principles and criteria in relation to drinking water and sanitation. It explains the international legal obligations in terms of operational policies and practice that will support the progressive realisation of universal access.

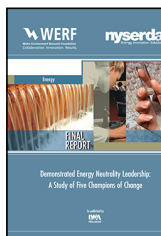
The Manual introduces a human rights perspective that will add value to informed decision making in the daily routine of operators, managers and regulators. It also encourages its readership to engage actively in national dialogues where the human rights to safe drinking water and sanitation are translated into national and local policies, laws and regulations. Creating such an enabling environment is, in fact, only the first step in the process towards progressive realisation. Allocation of roles and responsibilities is the next step, in an updated institutional and operational set up that helps apply a human rights lens to the process of reviewing and revising the essential functions of operators, service providers and regulators.

August 2016 • 110 pages • Paperback
ISBN: 9781780407432 • Ebook ISBN: 9781780407449
Non Members Price: £75.00/US\$135.00/€101.00
IWA Members Price: £56.00/US\$101.00/€76.00

Policy & Governance

Demonstrated Energy Neutrality Leadership

A Study of Five Champions of Change
 Editors: Steve Tarallo and Paul Kohl



This title belongs to the WERF Research Report Series

February 2016 • 100 pages • Ebook
Ebook ISBN: 9781780407456
Non Members Price: £28.00/US\$50.00/€38.00
IWA Members Price: £21.00/US\$38.00/€28.00

Policy & Governance

Database of Permitting Practices for Seawater Concentrate Disposal

Authors: Mike Mickley and Nikolay Voutchkov



This title belongs to the WERF Research Report Series

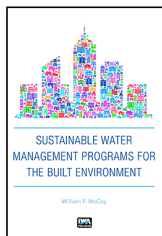
September 2016 • 197 pages • Ebook
Ebook ISBN: 9781780408484
Non Members Price: £28.00/US\$50.00/€38.00
IWA Members Price: £21.00/US\$38.00/€28.00

* For Ebook prices please see page 2

Urban Water

Sustainable Water Management Programs for the Built Environment

Author: William F. McCoy



Successful water management programs result in healthier building occupants and reduced cost to business and society.

Water management programs for the built environment must be comprehensive and sustainable. Water safety in buildings is not practical unless also the operational efficiency of building water systems

is well managed. Owners and managers of buildings face increasing water, sewer and energy costs. The demand to be better stewards of water and energy is intensifying.

Disease and injury associated with water systems in buildings have harmed millions of people. Every year, hundreds of thousands of people are newly afflicted and many thousands of people are killed. The public are generally unaware and their concern is not proportional to the terrible cost. The microbial, chemical and physical hazards to which people are exposed from water in the built environment can be prevented from causing harm by application of scientifically proven principles in hazard analysis and control. Tried and true process management applied to water systems in buildings has been proven to prevent disease and injury.

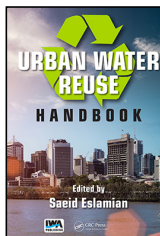
Sustainable Water Management Programs for the Built Environment gives the framework for comprehensive, sustainable water management in the built environment. Case studies of scientifically defensible applications are given throughout the book to illustrate principles and provide examples. The aim of the book is to facilitate implementation of effective, sustainable water management programs for buildings.

September 2017 • 192 pages • Paperback
ISBN: 9781780407265 • Ebook ISBN: 9781780407272
Non Members Price: £89.00/US\$160.00/€120.00
IWA Members Price: £67.00/US\$121.00/€90.00

Urban Water

Urban Water Reuse Handbook

Editor: 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.

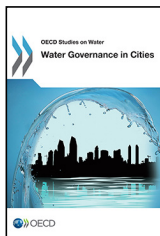
This title is co-published with CRC Press

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

Urban Water

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

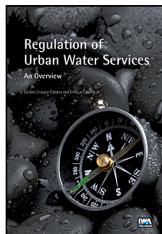
May 2016 • 140 pages • Paperback
ISBN: 9781780408248 • Ebook ISBN: 9781780408255
Non Members Price: £25.00/US\$45.00/€34.00
IWA Members Price: £19.00/US\$34.00/€26.00

* For Ebook prices please see page 2

Urban Water

Regulation of Urban Water Services*An Overview*

Editors: Enrique Cabrera Marcet and Enrique Cabrera Rochera



Over the years urban water systems developed rapidly and unsystematically and today their implementation requires more control. They need to meet the demands of citizens for the 21st century in a sustainable manner providing good quality and at the lowest possible cost.

Regulation of Urban Water Services provides an overview of the regulation

of urban water management throughout world and in Spain. To set the sector in order, the management of urban water systems requires a new tool to implement regulations that cover the varied concerns of high quality standards, growing complexity, social importance, the intrinsic monopolist nature of the sector and sustaining them environmentally, economically and socially.

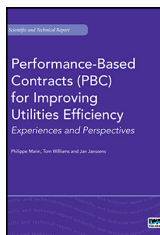
This book provides a wide range of experiences gained from workshops and promotes the exchange of ideas that will help to lead to a much-needed urban water regulation model.

September 2016 • 218 pages • Hardback
ISBN: 9781780408170 • Ebook ISBN: 9781780408187
Non Members Price: £95.00/US\$171.00/€128.00
IWA Members Price: £71.00/US\$128.00/€96.00

Utility Management

Performance-Based Contracts (PBC) for Improving Utilities Efficiency

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



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

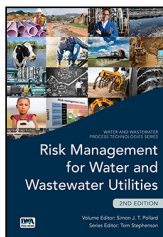
June 2017 • 180 pages • Paperback
ISBN: 9781780405957 • Ebook ISBN: 9781780405964
Non Members Price: £89.00/US\$160.00/€120.00
IWA Members Price: £67.00/US\$121.00/€90.00

* For Ebook prices please see page 2

Utility Management

Risk Management for Water and Wastewater Utilities

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.

This second edition of the key 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 up-dated 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

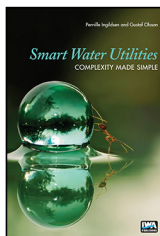
Non Members Price: £89.00/US\$160.00/ €120.00

IWA Members Price: £67.00/US\$121.00/€90.00

Utility Management

Smart Water Utilities*Complexity Made Simple*

Authors: Pernille Ingildsen and Gustaf Olsson



Today there is increasing pressure on the water infrastructure and although unsustainable water extraction and wastewater handling can continue for a while, at some point water needs to be managed in a way that is sustainable in the long-term. We need to handle water utilities "smarter".

New and effective tools and technologies are becoming available

at an affordable cost and these technologies are steadily changing water infrastructure options; the quality and robustness of sensors are increasing rapidly and their reliability makes the automatic handling of critical processes viable. Online and real-time control means safer and more effective operation.

The combination of better sensors and new water treatment technologies is a strong enabler for decentralised and diversified water treatment. Plants can be run with a minimum of personnel attendance; in the future, thousands of sensors in the water utility cycle will handle all the complexity in an effective way.

Smart Water Utilities: Complexity Made Simple provides a framework for Smart Water Utilities based on an 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 • 304 pages • Paperback

ISBN: 9781780407579 • Ebook ISBN: 9781780407586

Non Members Price: £79.00/US\$142.00/ €107.00

IWA Members Price: £59.00/US\$106.00/€80.00

* For Ebook prices please see page 2

Utility Management

Asset Management of Force Main Infrastructure

Synthesis Report

Author: Sunil Sinha



This title belongs to the WERF Research Report Series

November 2017 • 100 pages • Ebook

Ebook ISBN: 9781780408538

Non Members Price: £28.00/US\$50.00/€38.00

IWA Members Price: £21.00/US\$38.00/€28.00

Utility Management

Visual Tool for Supporting Asset Management Performance, Risk, and Cost Analysis

Authors: Sergio T. Coelho, Diogo Vitorino, Bradley Jurkovic, Helena Alegre, David Kerr and Rita S. Brito



This title belongs to the WERF Research Report Series

March 2016 • 144 pages • Ebook

Ebook ISBN: 9781780407777

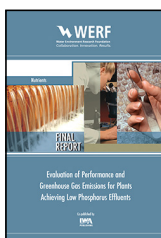
Non Members Price: £28.00/US\$50.00/€38.00

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Utility Management

Evaluation of Performance and Greenhouse Gas Emissions for Plants Achieving Low Phosphorus Effluents

Author: Christine de Barbaddillo



This title belongs to the WERF Research Report Series

March 2016 • 150 pages • Ebook

ISBN: 9781780406923

Non Members Price: £28.00/US\$50.00/€38.00

IWA Members Price: £21.00/US\$38.00/€28.00

Utility Management

Guidelines for Utilities Wishing to Conduct Pilot-Scale Demonstrations

Authors: Lori Stone and Wendell Khunjar



This title belongs to the WERF Research Report Series

September 2016 • 62 pages • Ebook

Ebook ISBN: 9781780408514

Non Members Price: £28.00/US\$50.00/€38.00

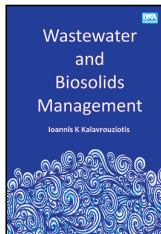
IWA Members Price: £21.00/US\$38.00/€28.00

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Wastewater, Reuse & Sludge

Wastewater and Biosolids Management

Editor: Ioannis K. Kalavrouziotis



Wastewater and Biosolids Management covers a wide range of current, new and emerging topics in wastewater and biosolids. The book addresses the theoretical and practical aspect of the reuse and looks to advance our knowledge on wastewater reuse and its application in agricultural production.

The book aims to present existing modern information about wastewater reuse management based on earlier literature on the one hand and recent research developments, many of which have not so far been implemented into actual practice on the other. It combines the practical and theoretical knowledge about 'wastewater and biosolids management' and in this sense it is useful for researchers, students, academicians as well as for professionals.

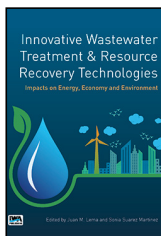
June 2017 • 130 pages • Hardback
ISBN: 9781780408224 • Ebook ISBN: 9781780408231
Non Members Price: £85.00/US\$153.00/€115.00
IWA Members Price: £64.00/US\$115.00/€86.00

Wastewater, Reuse & Sludge

Innovative Wastewater Treatment & Resource Recovery Technologies

Impacts on Energy, Economy and Environment

Editors: 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.

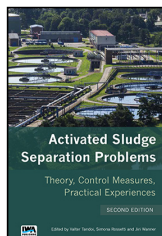
June 2017 • 600 pages • Paperback
ISBN: 9781780407869 • Ebook ISBN: 9781780407876
Non Members Price: £149.00/US\$268.00/€201.00
IWA Members Price: £112.00/US\$202.00/€151.00

Wastewater, Reuse & Sludge

Activated Sludge Separation Problems

Theory, Control Measures, Practical Experiences

Editors: Valter Tandoi, Simona Rossetti and Jiri Wanner



Activated Sludge Separation Problems: Theory, Control Measures, Practical Experiences, Second Edition, describes the most common activated sludge separation problems and explains the main reasons for the growth of the different filamentous microorganisms in activated sludge. The book summarizes the identification techniques for important groups of activated sludge microorganisms both based on conventional microscopic analysis and using the biological molecular tools available today (FISH and PCR).

This new edition, with 70% new and updated material, also provides explanation of basic activated sludge process principles and of parameters necessary for process control and operation. The theory of secondary clarifiers is described to the extent necessary for understanding the construction and operation of secondary clarifiers. The activated sludge reactor and secondary clarifiers are treated as one system and the interactions are explained. The wide range of experiences around the world is documented and the methods to avoid the proliferation of these organisms are presented and critically reviewed.

Activated Sludge Separation Problems consists of six chapters, presenting up-to-date technical and scientific aspects of these processes. The new edition also features an extended list of literature references for further reading.

The book will be a valuable help for students of environmental engineering, wastewater specialists, plant operators and designers of activated sludge plants. It is also useful for specialists in wastewater operation laboratories, especially for those studying activated sludge separation properties.

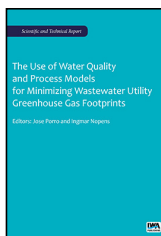
June 2017 • 300 pages • Paperback
ISBN: 9781780408637 • Ebook ISBN: 9781780408644
Non Members Price: £95.00/US\$171.00/€128.00
IWA Members Price: £72.00/US\$130.00/€97.00

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Wastewater, Reuse & Sludge

The Use of Water Quality and Process Models for Minimizing Wastewater Utility Greenhouse Gas Footprints

Editors: Jose Porro and Ingmar Nopens

*Scientific and Technical Report No. 26.*

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 title belongs to the Scientific and Technical Report Series

August 2017 • 200 pages • Paperback

ISBN: 9781780408262 • Ebook ISBN: 9781780408279

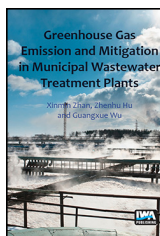
Non Members Price: £89.00/US\$160.00/€120.00

IWA Members Price: £67.00/US\$121.00/€90.00

Wastewater, Reuse & Sludge

Greenhouse Gas Emission and Mitigation in Municipal Wastewater Treatment Plants

Authors: Xinmin Zhan, Zhenhu Hu and Guangxue Wu



The wide adoption of wastewater treatment processes and use of novel technologies for improvement of nitrogen and phosphorus removals from wastewater have been introduced to meet stringent discharge standards. Municipal wastewater treatment plants (MWWTPs) are one of major contributors to the increase in the global GHG emissions and therefore it is necessary to carry out intensive

studies on quantification, assessment and characterization of GHG emissions in wastewater treatment plants, on the life cycle assessment from GHG emission prospective, and on the GHG mitigation strategies.

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 MWWTPs. It also summarizes the development in life cycle assessment on 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 the water, climate, and energy areas of research. It is also a useful reference source for water professionals, government policy makers, and research institutes.

September 2017 • 150 pages • Paperback

ISBN: 9781780406305 • Ebook ISBN: 9781780406312

Non Members Price: £89.00/US\$160.00/€120.00

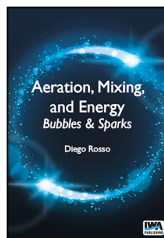
IWA Members Price: £67.00/US\$121.00/€90.00

* For Ebook prices please see page 2

Wastewater, Reuse & Sludge

Aeration, Mixing, and Energy*Bubbles & Sparks*

Editor: Diego Rosso



Aeration, Mixing, and Energy: Bubbles & Sparks aims at compiling the existing knowledge on aeration, mixing, and their energy implications for water reclamation and wastewater treatment. The book assembles the numerous research papers published on this subject, plus an extensive amount of knowledge arising from the experience of the contributing team. The book is a valuable complement to any book on water reclamation and wastewater treatment.

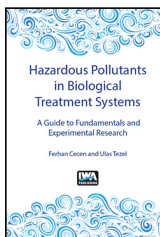
The audience includes both researchers and practitioners, using a combination of fundamentals of engineering science and practice, plus field observations.

October 2017 • 220 pages • Paperback
ISBN: 9781780407838 • Ebook ISBN: 9781780407845
Non Members Price: £89.00/US\$160.00/€120.00
IWA Members Price: £67.00/US\$121.00/€90.00

Wastewater, Reuse & Sludge

Hazardous Pollutants in Biological Treatment Systems*A Guide to Fundamentals and Experimental Research*

Authors: Ferhan Cecen and Ulas Tezel



Hazardous Pollutants in Biological Treatment Systems examines the behaviour, removal and effects of hazardous pollutants in biological treatment. While in former years the main aim in biological treatment was the removal of bulk organic matter or nutrients such as nitrogen and phosphorus, due to the discharge of a number of specific inorganic or organic hazardous compounds into wastewater treatment systems, this issue is becoming increasingly important.

There is also concern about the presence of hazardous pollutants in drinking water treatment, since water bodies are contaminated with them. Although in wastewater or water treatment systems hazardous pollutants are often found at a few mg/L or even lower concentrations (micropollutants: microgram/L or nanogram/L), their removal and effects are quite problematic. While implementation of physicochemical processes is more straightforward and better understood, there are still many unresolved issues regarding the removal and fate of hazardous pollutants in biological processes.

The book focuses entirely on hazardous pollutants in biological treatment systems alone and delineates the fundamental characteristics of hazardous pollutants and concentrate on their behaviour and effects in biological treatment systems. Its content ranges from description of fundamental removal mechanisms to application of biological processes as well as to experimental methods based on the process characterization approach and the examination of microbial ecology by molecular microbiology and genetic tools.

Hazardous Pollutants in Biological Treatment Systems is aimed to be an essential resource to the researcher or the practitioner who is already involved with hazardous pollutants and biological processes or intending to do so. The text will also be useful for professionals working in the field of water and wastewater treatment where hazardous pollutants have become increasingly important in biological processes.

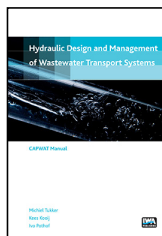
December 2017 • 350 pages • Paperback
ISBN: 9781780407708 • Ebook ISBN: 9781780407715
Non Members Price: £99.00/US\$178.00/€134.00
IWA Members Price: £74.00/US\$133.00/€100.00

* For Ebook prices please see page 2

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 recognised 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.

This manual provides a compilation of all the hydraulic knowledge that is necessary for designing a wastewater transport system and to manage it operationally. The wastewater transport system is the link between the collection and treatment of the wastewater and the collection system includes, among others, the gravity flow sewage system from the house (or consumer) and service connection through street and main sewers up to the suction basins. The transport system, for which this manual was written, includes the suction basin, the sewage pumping station and the pressure pipelines.

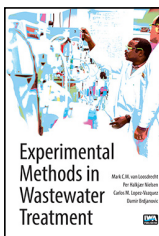
The central point of the design is to create an independent and safe system with the necessary transport capacity at minimum societal costs. Predominantly, the management aspect focuses on guidelines to maintain the design principles regarding capacity and required energy.

April 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\$121.00/€90.00

Wastewater, Reuse & Sludge

Experimental Methods in Wastewater Treatment

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



Over the past twenty years, the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically based approaches to a fundamentally-based first principles approach embracing chemistry, microbiology, and physical and bioprocess engineering, often involving experimental laboratory work and techniques. Many of these

experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice. For sector professionals, especially a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of these new developments can be overwhelming, particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available. In addition, information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines. This book seeks to address these deficiencies. It 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. The book is written for undergraduate and postgraduate students, researchers, laboratory staff, plant operators, consultants, and other sector professionals.

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

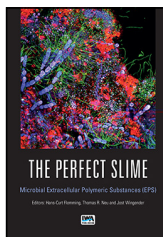
* For Ebook prices please see page 2

Wastewater, Reuse & Sludge

The Perfect Slime

Microbial Extracellular Polymeric Substances (EPS)

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



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 and 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 impossible isolate, 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?

September 2016 • 336 pages • Hardback
ISBN: 9781780407418 • Ebook ISBN: 9781780407425
Non Members Price: £105.00/US\$187.00/€140.00
IWA Members Price: £78.00/US\$140.00/€105.00

Wastewater, Reuse & Sludge

Manejo de Lodos Fecales

Authors: Linda Strande, Mariska Ronteltap and Damir Brdjanovic



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

Faecal Sludge Management: Systems Approach for Implementation and Operation 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.

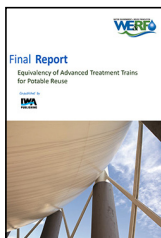
The book is designed for undergraduate and graduate students, and engineers and practitioners in the field who have some basic knowledge of environmental and/or wastewater engineering.

December 2016 • 400 pages • paperback
ISBN: 9781780408019 • Ebook ISBN: 9781780408026
Non Members Price: £75.00/US\$135.00/€101.00
IWA Members Price: £56.00/US\$101.00/€76.00

Wastewater, Reuse & Sludge

Equivalency of Advanced Treatment Trains for Potable Reuse

Author: R. Rhodes Trussell



This title belongs to the WERF Research Report Series

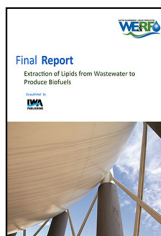
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Wastewater, Reuse & Sludge

Extraction of Lipids from Wastewater to Produce Biofuels

Authors: Richard Cairncross, Mira S. Olson and Sabrina Spatari



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November 2017 • 120 pages • Ebook

Ebook ISBN: 9781780408552

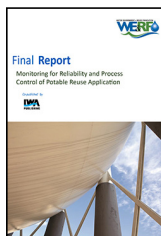
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Wastewater, Reuse & Sludge

Monitoring for Reliability and Process Control of Potable Reuse Application

Authors: Ian Pepper and Shane Snyder



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Wastewater, Reuse & Sludge

A Low-Energy Wastewater Treatment Process for Producing High Quality Water

Phase 2

Author: Eric Marchland



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Wastewater, Reuse & Sludge

Protecting Wastewater Treatment Plant Operators from Emerging Pathogens

Authors: Jacqueline MacDonald Gibson, Jamie Bartram and Mark D. Sobsey



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Wastewater, Reuse & Sludge

Assessing the Impacts of Pulp Loading from Non-Dispersible Materials on Downstream Sewer Systems

Author: John Pastore



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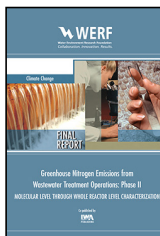
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Wastewater, Reuse & Sludge

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

Editor: Kartik Chandran



This title belongs to the WERF Research Report Series

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Ebook ISBN: 9781780408057

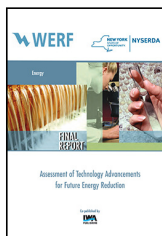
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Wastewater, Reuse & Sludge

Assessment of Technology Advancements for Future Energy Reduction

Editor: John Willis



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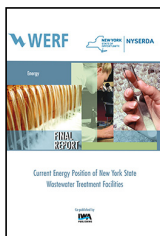
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Wastewater, Reuse & Sludge

Current Energy Position of New York State Wastewater Treatment Facilities

Authors: Nancy Andrews, John Willis and Diane Nascimento



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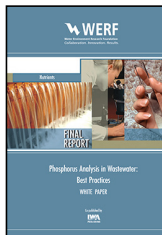
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Wastewater, Reuse & Sludge

Phosphorus Analysis in Wastewater: Best Practices

Author: D. Scott Smith



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Wastewater, Reuse & Sludge

Impact of Advanced Oxidation Processes on the Composition and Biodegradability of Soluble Organic Nutrients in Wastewater Effluents

Editor: April Z. Gu



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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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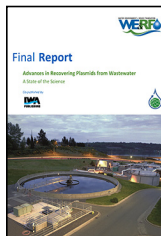
IWA Members Price: £21.00/US\$38.00/€28.00

Wastewater, Reuse & Sludge

Advances in Recovering Plasmids from Wastewater

A State of the Science

Authors: Kevin Gilmore, Samuel Jeyanayagam, Wendell Khunjar and Thomas Worley-Morse



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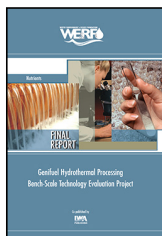
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Wastewater, Reuse & Sludge

Genifuel Hydrothermal Processing Bench-Scale Technology Evaluation Report

Author: Philip Marrone



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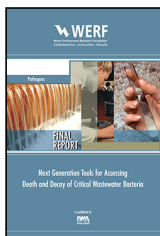
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Wastewater, Reuse & Sludge

Next Generation Tools for Assessing Death and Decay of Critical Wastewater Bacteria

Author: Amy Pruden



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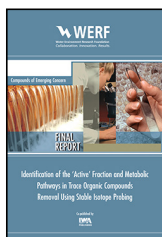
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Wastewater, Reuse & Sludge

Identification of the 'Active' Fraction and Metabolic Pathways in Trace Organic Contaminants Removal Using Stable Isotope Probing

Author: Kartik Chandran



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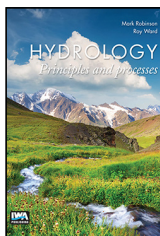
IWA Members Price: £21.00/US\$38.00/€28.00

Wastewater, Resources & Environment

Hydrology

Principles and Processes

Authors: M. Robinson, R. C. Ward



The book comprises nine chapters, with seven core chapters dealing in detail with the basic principles and processes of the main hydrological components of the water cycle: precipitation, interception, evaporation, soil water, groundwater, streamflow and water quality. It takes a broadly non-mathematical approach, although some numeracy is assumed particularly in the treatment of evaporation and soil water.

The introductory and concluding chapters show the relations and interactions between these components, and also put the importance of water into a wider human context – its significant role in human history, its key role today, and potential role in future in the light of climate change and increasing global population pressures. The book is thoroughly up-to-date, contains over 100 diagrams and photographs to explain and amplify the concepts described, and contains over 750 references for further study.

It can be used as a textbook in both undergraduate and postgraduate courses. As well as providing a modern and accessible and comprehensive understanding of the water cycle and its underlying processes, the book covers

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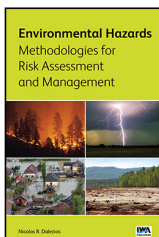
the increasingly important interface with other disciplines, including environmental management and policy, climate change and ways of meeting the water needs of a growing population.

January 2017 • 404 pages • Paperback
ISBN: 9781780407289 • Ebook ISBN: 9781780407296
Non Members Price: £69.00/US\$124.00/€93.00
IWA Members Price: £52.00/US\$94.00/€70.00

Wastewater, Resources & Environment

Environmental Hazards Methodologies for Risk Assessment and Management

Editor: Nicolas R. Dalezios



From the beginning of 21st century, there has been an awareness of risk in the environment along with a growing concern for the continuing potential damage caused by hazards. In order to ensure environmental sustainability, a better understanding of natural disasters and their impacts is essential.

It has been recognized that a holistic and integrated approach to environmental hazards needs to be attempted using common methodologies, such as risk analysis, which involves risk management and risk assessment. Indeed, risk management means reducing the threats posed by known hazards, whereas at the same time accepting unmanageable risks and maximizing any related benefits.

The risk management framework involves evaluating the importance of a risk, either quantitatively or qualitatively. Risk assessment comprises three steps, namely risk identification (data base, event monitoring, statistical inference), risk estimation (magnitude, frequency, economic costs) and risk evaluation (cost-benefit analysis).

Nevertheless, the risk management framework also includes a fourth step, risk governance, i.e. the need for a feedback of all the risk assessment undertakings. There is currently a lack of such feedback which constitutes a serious deficiency in the reduction of environmental hazards.

This book 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.

These are considered within the risk management framework and, in particular, within the three components of risk assessment, namely risk identification, risk estimation and risk evaluation. This approach is a contemporary and innovative procedure and constitutes current research in the field of environmental hazards.

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.

This book provides a text and a resource on environmental hazards for senior undergraduate students, graduate students on all courses related to environmental hazards and risk assessment and management. It is a valuable handbook for researchers and professionals of environmental science, environmental economics and management, and engineering.

April 2017 • 560 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
Student Price: £66.00/\$119.00/€89.00

Wastewater, Resources & Environment

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

International Conference Proceedings 26 -28 August, 2016, China

Editors: Muhammad Aqeel Ashraf and Wan Syaidatul Aqma



As we embark into the 21st century, we need to address new challenges ranging from population growth, climate change, and depletion of natural resources to providing better health care, food security and peace to humankind, while at the same time protecting natural ecosystems that provide the services which allow life to flourish on Earth. To meet those challenges, profound changes are required in the way that societies conduct their everyday affairs, ways that will lead to better preservation, protection and sustainable management of natural resources with long lasting impacts.

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

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

April 2017 • 374 pages • Paperback
ISBN: 9781780408156 • Ebook ISBN: 9781780408163
Non Members Price: £125.00/US\$225.00/€169.00
IWA Members Price: £94.00/US\$169.00/€127.00

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Wastewater, Resources & Environment

Organic Waste Recycling

Technology, Management and Sustainability
Fourth Edition

Authors: Chongrak Polprasert and Thammarat Koottatep



This fourth edition of *Organic Waste Recycling* is fully updated with new material to create a comprehensive and accessible textbook:

- New chapter on constructed wetlands for wastewater and faecal sludge stabilization.
- New sections on: waste recycling vs. climate change and water; faecal sludge and its characteristics;

hydrothermal carbonization technology; up-to-date environmental criteria and legislation and environmental risk assessment.

- New case studies with emphasis on practices in both developed and developing countries have been included, along with more exercises at the end of chapters to help the readers understand the technical principles and their application.
- Novel concepts and strategies of waste management are presented.
- Up-to-date research findings and innovative technologies of waste recycling program are provided.

This textbook is intended for undergraduate and graduate students majoring in environmental sciences and engineering as well as researchers, professionals and policy makers who conduct research and practices in the related fields. It is essential reading for experts in environmental science and engineering and sustainable waste reuse and recycling in both developed and developing countries.

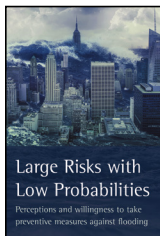
May 2017 • 600 pages • Paperback
ISBN: 9781780408200 • Ebook ISBN: 9781780408217
Non Members Price: £85.00/US\$153.00/€115.00
IWA Members Price: £64.00/US\$115.00/€86.00

Wastewater, Resources & Environment

Large Risks with Low Probabilities

Perceptions and Willingness to take Preventive Measures Against Flooding

Editors: Tadeusz Tyszka and Piotr Zielonka



This volume contains studies of one particular category of risky situations, namely, those involving highly negative consequences with low probabilities. Situations of this type involve both natural and man-made disasters (e.g. floods, technological hazards, economic crises, epidemics, etc.). Such risks are characterized by two features: (1) they occur relatively rarely (the probability of their occurrence is very

low) and (2) they have extremely negative consequences (they are catastrophic). Such events generally cannot be prevented, but one can both try to anticipate them and undertake actions aimed at ameliorating their negative consequences. Consequently, the first part of the book is devoted to risk perception issues. It includes studies devoted to the following questions which arise when people have to deal with probabilities, and small probabilities in particular: How can probabilistic information be communicated effectively? What is the impact of emotions on perceptions of, and reactions to, probabilistic information? Other relevant issues are also discussed. The second part of the book is devoted to protection and insurance against risk. Thus, it includes studies answering the following questions: What determines a person's willingness to take preventive actions in areas susceptible to severe flooding? How do people form their own risk estimates?

Research presented in the book extends our knowledge of human behavior in situations characterized by large risks and low probabilities, leading to better comprehension of the functioning of cognitive and affective processes in perception and decision making in situations where uncertainty and risk are accompanied by highly negative consequences.

June 2017 • 250 pages • Hardback
ISBN: 9781780408590 • Ebook ISBN: 9781780408606
Non Members Price: £95.00/US\$171.00/€128.00
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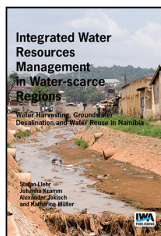
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Wastewater, Resources & Environment

Integrated Water Resources Management in Water-scarce Regions

Water Harvesting, Groundwater Desalination and Water Reuse in Namibia

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



The research project CuveWaters developed and implemented adapted technologies and accompanying measures to support the national process towards an Integrated Water Resources Management (IWRM). The aim is to give people in the Cuvelai-Etoshia Basin reliable access to clean water over the long term, thus enhancing their livelihood and health, and to create job opportunities. 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 focussed details on the three technology-based solutions which go beyond mere technical considerations and embed this into the overarching process towards IWRM in Namibia.

Finally, it critically addresses lessons learnt and limits of projects in the context of research for implementation. This book is of great value to experts, professionals and also students and academics in the areas of water management, technology development and implementation and transdisciplinary science.

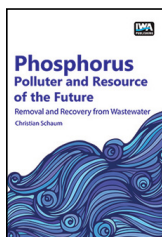
July 2017 • 220 pages • Paperback
ISBN: 9781780407906 • Ebook ISBN: 9781780407913
Non Members Price: £74.00/US\$133.00/€100.00
IWA Members Price: £56.00/US\$101.00/€76.00

Wastewater, Resources & Environment

Phosphorus: Polluter and Resource of the Future

Motivations, Technologies and Assessment of the Elimination and Recovery of Phosphorus from Wastewater

Editor: Christian Schaum



This comprehensive book provides an up-to-date and international approach that addresses the motivations, technologies and assessment of the elimination and recovery of phosphorus from wastewater.

This title belongs to the Integrated Environmental Technology Series

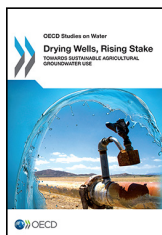
December 2017 • 450 pages • Hardback
ISBN: 9781780408354 • Ebook ISBN: 9781780408361
Non Members Price: £129.00/US\$232.00/€174.00
IWA Members Price: £97.00/US\$175.00/€131.00

Wastewater, 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. The report provides a characterisation 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
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Wastewater, 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 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. Indeed, drought and flood risks are likely to become a major policy concern as increasing population will increase the demand for food, feed, fibre, and energy, not to mention the competition for water resources, and urbanisation will increase the demand for flood protection and mitigation, raising the issue of the allocation of flood risks across sectors and areas.

This title belongs to the OECD Report Series

April 2016 • 74 pages • Paperback

ISBN: 9781780408132 • Ebook ISBN: 9781780408149

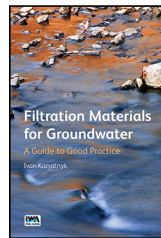
Non Members Price: £25.00/US\$45.00/€34.00

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Wastewater, Resources & Environment

Filtration Materials for Groundwater*A Guide to Good Practice*

Editor: Ivan Kozyatnyk



Ground water is a source for drinking and industrial water supply and pollution created by active industrial sites which often cause 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.

This book is of interest to scientists and engineer who deal with the problem of purification of ground water for different purposes and the remediation of polluted sites.

This title belongs to the OECD Report Series

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Wastewater, Resources & Environment

Financial Management of Flood Risks

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



Disasters present a broad range of human, social, financial, economic and environmental impacts, with potentially long-lasting, multi-generational effects. The financial management of these impacts is a key challenge for individuals and governments in developed and developing countries. G20 Finance Ministers and Central Bank Governors and APEC Finance Ministers have recognised the

importance and priority of disaster risk management strategies and, in particular, disaster risk assessment and risk financing. The OECD has supported the development of strategies for the financial management of natural and man-made disaster risks, under the guidance of the OECD High-Level Advisory Board on Financial Management of Large-scale Catastrophes and the OECD Insurance and Private Pensions Committee. This work has included the elaboration of an OECD Recommendation on Good Practices for Mitigating and Financing Catastrophic Risks and a draft Recommendation on Disaster Risk Financing Strategies; the *Financial Management of Flood Risk* extends this work by applying the lessons from the OECD's analysis of disaster risk financing practices and the development of its guidance to the specific case of floods.

This title belongs to the OECD Report Series

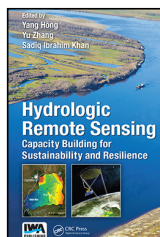
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Wastewater, Resources & Environment

Hydrologic Remote Sensing

Capacity Building for Sustainability and Resilience

Authors: Yang Hong, Yu Zhang and Sadiq Lbrahm 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.

- Presents an overview of the past, current and future remote sensing observations of the precipitation, soil moisture, evapotranspiration and total water storage
- Reviews the various applications of remote sensing in hydrological/land surface/climate modeling and Ensemble Square Root Filter (EnSRF) data assimilation
- Demonstrates techniques to help reduce devastating disasters triggered by hydrological hazards such as floods and landslides
- Explains how remote sensing, modeling and data assimilation can be utilized to improve societal resilience and environmental sustainability
- Shows how to create real-time flood and drought monitoring systems

This title is co-published with CRC Press

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Wastewater, Resources & Environment

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Author: David Clark



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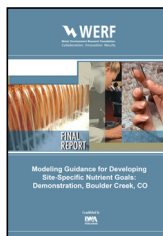
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Wastewater, Resources & Environment

Modeling Guidance for Developing Site-Specific Nutrient Goals

Demonstration, Boulder Creek, CO

Editor: Clifton F. Bell



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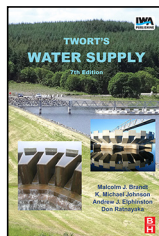
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Water Supply & Treatment

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

January 2017 • 966 pages • Paperback

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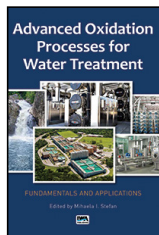
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Water Supply & Treatment

Advanced Oxidation Processes for Water Treatment

Fundamentals and Applications

Editor: Mihaela I. Stefan



Advanced Oxidation Processes (AOPs) that rely on the efficient generation of reactive radical species increasingly attract greater interest with respect to their application to water remediation from a wide variety of organic micropollutants concerning human health or the environment.

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.

The book is structured in two sections; the first part is dedicated to the most relevant AOPs, and the second section addresses specific topics, such as the photochemistry of chemical contaminants in the aquatic

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environment, advanced water treatment for water reuse, implementation of advanced treatment processes for drinking water production at a state-of-the-art water treatment plant in Europe, and advanced treatment of industrial wastewater.

Each advanced oxidation process outlined in the book address the following aspects:

- Process principles including the most recent scientific findings and their interpretation.
- Classes of compounds suitable to treatment and examples of reaction mechanisms.
- Kinetic aspects, reaction modelling, quantitative structure-activity relationship (QSAR).
- Water quality impact on process performance, practical considerations on process parameter selection criteria.
- Process limitations and by-product formation; strategies to mitigate the adverse effects on the treated water quality.
- Reactor/equipment design and economic considerations, figures-of-merit.
- Case studies relevant to process implementation to water treatment.
- Drinking water regulations driving the process implementation.
- Commercial applications.
- Future research needs.
- Reference list.

Advanced Oxidation Processes for Water Treatment reflects the most advanced knowledge and process understanding and the authors 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, water industry professionals.

May 2017 • 450 pages • Paperback
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Water Supply & Treatment

Recent Developments in Forward Osmosis Processes

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



Forward osmosis (FO) is an emerging membrane technology with a range of possible water treatment applications (desalination and wastewater treatment and recovery).

Recent Developments in Forward Osmosis Processes provides an overview of applications, advantages, challenges, costs and current knowledge gaps. Commercial technology, hybrid FO systems for both desalination and water recovery applications have shown to have higher capital cost compared to conventional technologies. Nevertheless, due to the demonstrated lower operational costs of hybrid FO systems, the unit cost for each m³ of fresh water produced with the FO system are lower than conventional desalination/water recovery technologies (i.e. ultrafiltration/RO systems).

There are key benefits of using FO hybrid systems compared to RO:

- chemical storage and feed systems may be reduced for capital, operational and maintenance cost savings,
- reduced process piping costs,
- more flexible treatment units,
- higher overall sustainability of the desalination process, while producing high quality water.

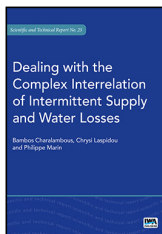
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Water Supply & Treatment

Dealing with the Complex Interrelation of Intermittent Supply and Water Losses

Authors: Bambos Charalambous, Chrysi Lapidou and Philippe Marin



The challenge of managing a water supply system that is intermittent and with high levels of water losses poses water utility managers with a conundrum regarding how to address these. 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 is analysed providing examples of successful application.

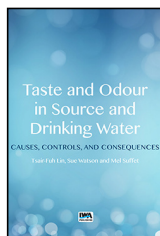
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Water Supply & Treatment

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.

Taste and Odour in Source and Drinking Water is directed towards a wide readership of scientists, engineers, technical operators and managers, and presents both practical and theoretical material, including an updated version of the benchmark Drinking Water Taste and Odour Wheel and a new biological wheel to provide a practical and informative tool for the initial diagnosis of the chemical and biological sources of aquatic T&O.

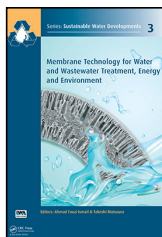
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Water Supply & Treatment

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
- an interdisciplinary approach addressing the challenges of fresh water supply and sanitation

Many innovative ideas on the development of membrane science and technology are assembled in this book and readers will find information on the rapidly growing Research and Development activities in the ASEAN and the Middle East regions that are emerging as the next generation research centres of membrane technologies, especially owing to their need of technology for water and wastewater treatment.

Membrane Technology for Water and Wastewater Treatment, Energy and Environment will be useful not only for the engineers, scientists, professors and graduate students who are engaged in the Research and Development activities of the field, but also for a global audience interested in the sustainable development of these regions.

This title is co-published with CRC Press

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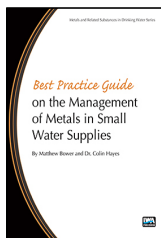
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Water Supply & Treatment

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

Editors: Matt Bower and Colin Hayes



The management of small water supplies presents a unique challenge globally, in countries at all stages of development. A combination of lack of resources, limited understanding of the risks and poor expertise means that individuals and communities may face serious health risks from these supplies. This is not only due to microbiological contamination, but also from contamination by metals, either

due to natural or man-made contamination of the source water or through leaching from plumbing materials due to inadequate conditioning and corrosion inhibition and use of inappropriate materials.

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. Management techniques and treatment relating to specific metals will be covered, from a theoretical and practical perspective, to deliver a publication that will act as an authoritative guide for all those faced with the problem of ensuring the quality of a small water supply. Varied case-studies will 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

April 2016 • 148 pages • Paperback

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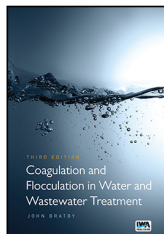
IWA Members Price: £59.00/US\$106.00/€80.00

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Water Supply & Treatment

Coagulation and Flocculation in Water and Wastewater Treatment*Third Edition*

Author: John Bratby



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

Thoroughly revised and updated this new edition has been progressively modified and increased in scope to cater for the requirements of practitioners involved with water and wastewater treatment.

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).

The book presents the subject logically and sequentially from theoretical principles to practical applications. Successive chapters deal with, in turn, properties of materials present in waters and wastewaters; characteristics and types of coagulants commonly in use; mechanisms and practical implications of destabilization of waterborne material using metal coagulants and polyelectrolytes; considerations and requirements for coagulant addition at the rapid mixing stage; theoretical and practical considerations of flocculation; and details of experimental procedures for assessing primary coagulants, flocculant aids, sludge conditioners, and flocculation parameters.

Coagulation and Flocculation in Water and Wastewater Treatment is a readable and useful resource for the water scientist and engineer. It is a convenient reference handbook providing numerous examples and appended information and it is a vital text for course material for undergraduate and postgraduate students.

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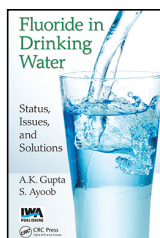
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Water Supply & Treatment

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

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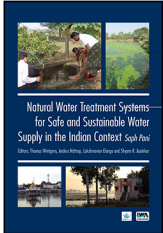
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Water Supply & Treatment

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

Saph Pani

Editors: Thomas Wintgens, Anders Nattorp, Lakshmanan Elango and Shyam R. Asolekar



Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context is based on the work from the Saph Pani project (Hindi word meaning potable water).

The book 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.

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

- an introduction to the concepts of natural water treatment systems (MAR, RBF, wetlands) at national and international level
- knowledge of the basics of MAR, RBF and wetlands, methods and hydrogeological characterisation
- an insight into case studies in India and abroad.

This book is a useful resource for teaching at Post Graduate level, for research and professional reference.

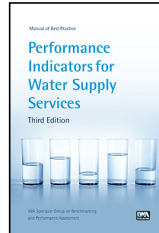
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Water Supply & Treatment

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 Indicator System for Water Services* is now recognized as a worldwide reference. Since its first appearance in 2000, the system has been widely quoted, adapted and used in a large number of projects both for internal performance assessment and metric benchmarking. Water professionals have benefited from a coherent and flexible system, with precise and detailed definitions

that in many cases have become a standard. 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 new edition of *Performance Indicators for Water Supply Services* is an invaluable reference source for all those concerned with managing the performance of the water supply industry, including those in the water utilities as well as regulators, policy-makers and financial agencies.

This title belongs to the Manual of Best Practice Series

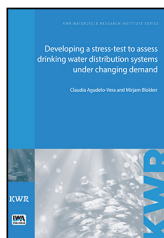
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Authors: Larry Schimmoller, Shane Snyder, Bob Arnold and Wendell Ela



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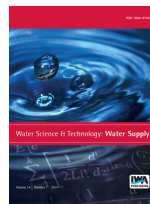
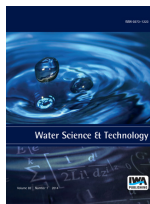
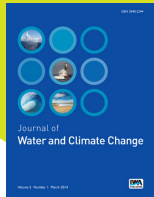
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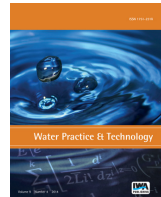
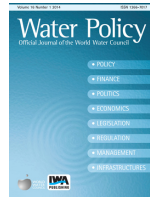
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