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Titles in Water, Wastewater and the Environment

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WIO is an online water reference library service for librarians and individuals providing access to a wealth of reference books, research reports, research papers and conference proceedings covering water, wastewater and related environmental topics.
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.

If you have queries about the journal, please contact publications@iwap.co.uk

The Water Quality Research Journal is an open access journal that publishes 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

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
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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

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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
Published in Partnership with:
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The British Hydrological Society (BHS)
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The German Hydrological Society (DHG)
The Italian Hydrological Society (IHS)
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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
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Journal of Water and Health

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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): £1,469 / US$2,600 / €2,291

Journal of Water Supply: Research and Technology - AQUA

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

ISSN: 0003-7214; vol.66, 8 issues, 2017
Institutional rate (print and online access): £952 / US$1,631 / €1,376
**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**

Institutional rate (print and online access):
- £1,147 / US$2,229 / €1,802

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**Water Research**

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

*Water Research* publishes refereed, original research papers on all aspects of the science and technology of water quality and its management worldwide.

Topics include:
- Treatment processes for water and wastewaters
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- Solid and hazardous waste management
- Environmental restoration
- Analysis of the interfaces between sediments and water, and water/atmosphere interactions
- 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
Editor in Chief: Professor Wolfgang Rauch, University of Innsbruck, Austria

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

• Sources of pollution including hazardous wastes and source control

• Effects and impacts of pollution on rivers, lakes, groundwater and marine waters

• Water reuse and aquatic environmental restoration

• Policy, strategy, control and management aspects of water quality.

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

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

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

• Management of water resources (including reservoirs)

• Water treatment technologies, including wastewater reuse and recycling

• Water distribution systems

• Drinking water quality

• Water utility management including economic and social aspects

• Norms and standards.

Water Science and Technology: Water Supply has a special mission to serve as a bridge between the many IWA specialist groups and between science, engineering applications and management aspects of water supply. Papers describing progress in full scale implementations are particularly encouraged.

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
Institutional rate (print and online access):
£2,227 / US$3,942 / €3,599
Water Practice and Technology
Editor in Chief: Professor Wolfgang Rauch, University of Innsbruck, Austria

IWA's online journal Water Practice & Technology was launched under the control of the Water Science and Technology Editorial Board to provide the widest possible dissemination of high-quality material that is of interest to practitioners rather than researchers.

Types of article include:
• Case studies
• Practical “know-how” reports
• Compilations of data on previously reported processes.

By publishing these articles electronically Water Practice and Technology provides a much-needed searchable archive that makes these practice-focused articles rapidly available worldwide.

Water Practice and Technology provides an invaluable source of information for water practitioners, including those active in utilities, consultants and engineers, enabling interested readers to find and access the information they are seeking.

ISSN (Online): 1751-231X, vol.12, 2017
Institutional rate (online only access): £278 / US$526 / €403

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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.

* For Ebook prices please see page 2
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.

*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
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

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Policy & Governance

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Authors: Mike Mickley and Nikolay Voutchkov

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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
Non Members Price: £89.00/US$160.00/€120.00
IWA Members Price: £67.00/US$121.00/€90.00

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, 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
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
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 the 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 • Hardcover**
Non Members Price: £95.00/US$171.00/€128.00
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*Performance-Based Contracts (PBC) for Improving Utilities Efficiency* 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**
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IWA Members Price: £67.00/US$121.00/€90.00

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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
Non Members Price: £89.00/US$160.00/€120.00
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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
Non Members Price: £79.00/US$142.00/€107.00
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Utility Management

**Asset Management of Force Main Infrastructure**
*Synthesis Report*
Author: Sunil Sinha

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Utility Management

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Author: Christine de Barbadillo

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Utility Management

**Guidelines for Utilities Wishing to Conduct Pilot-Scale Demonstrations**
Authors: Lori Stone and Wendell Khunjar

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* For Ebook prices please see page 2
### 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

### 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
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**IWA Members Price:** £72.00/US$130.00/€97.00

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*For Ebook prices please see page 2*
The Use of Water Quality and Process Models for Minimizing Wastewater Utility Greenhouse Gas Footprints

Editors: Jose Porro and Ingmar Nopens


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

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

Greenhouse Gas Emission and Mitigation in Municipal Wastewater Treatment Plants

Authors: Xinmin Zhan, Zhenhu Hu and Guangxue Wu

Greenhouse Gas Emission and Mitigation in Municipal Wastewater Treatment Plants summarizes the recent development in studies of greenhouse gas emissions (N2O, CH4 and CO2) in 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
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
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
Non Members Price: £89.00/US$160.00/€120.00
IWA Members Price: £67.00/US$121.00/€90.00

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
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
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
Non Members Price: £89.00/US$160.00/€120.00
IWA Members Price: £67.00/US$121.00/€90.00

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
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
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
Non Members Price: £105.00/US$187.00/€140.00
IWA Members Price: £78.00/US$140.00/€105.00

This title belongs to the WERF Research Report Series

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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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Wastewater, Reuse & Sludge

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Author: Philip Marrone

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Author: Kartik Chandran

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Author: Amy Pruden

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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...
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
Non Members Price: £69.00/US$124.00/€93.00
IWA Members Price: £52.00/US$94.00/€70.00

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
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

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
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*NEW PUBLICATIONS 2017*

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* For Ebook prices please see page 2
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
Non Members Price: £85.00/US$153.00/€115.00
IWA Members Price: £64.00/US$115.00/€86.00

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
Non Members Price: £95.00/US$171.00/€128.00
IWA Members Price: £72.00/US$130.00/€97.00
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-Etosha 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
Non Members Price: £74.00/US$133.00/€100.00
IWA Members Price: £56.00/US$101.00/€76.00

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.

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

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.

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

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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
Non Members Price: £25.00/US$45.00/€34.00
IWA Members Price: £19.00/US$34.00/€26.00

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

June 2016 • 144 pages • Paperback
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
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

October 2016 • 136 pages • Paperback
Non Members Price: £19.00/US$34.00/€26.00
IWA Members Price: £14.00/US$25.00/€19.00

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

November 2016 • 496 pages • Hardback
ISBN: 9781780408101
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IWA Members Price: £53.00/US$95.00/€72.00

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Wastewater, Resources & Environment

Nutrient Speciation and Refractory Compounds in Water Quality Models
Author: David Clark

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Wastewater, Resources & Environment

Modeling Guidance for Developing Site-Specific Nutrient Goals
Demonstration, Boulder Creek, CO
Editor: Clifton F. Bell

This title belongs to the WERF Research Report Series

January 2017 • 966 pages • Paperback
ISBN: 9781780406411
Non Members Price: £85.00/US$153.00/€115.00
IWA Members Price: £64.00/US$115.00/€86.00

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 is co-published with Elsevier/Butterworth Heinemann

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.

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Dealing with the Complex Interrelation of Intermittent Supply and Water Losses
Authors: Bambos Charalambous, Chrysi Laspidou 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.

July 2017 • 150 pages • Paperback
Non Members Price: £85.00/US$153.00/€115.00
IWA Members Price: £64.00/US$115.00/€86.00

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.

November 2017 • 250 pages • Paperback
Non Members Price: £95.00/US$171.00/€128.00
IWA Members Price: £71.00/US$128.00/€96.00

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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

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

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
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
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.

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

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

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

July 2016 • 342 pages • Paperback
Non Members Price: £115.00/US$207.00/€155.00
IWA Members Price: £87.00/US$157.00/€117.00

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 it 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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