

Publications Catalogue 2020

Titles in Water, Wastewater and
the Environment



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Welcome to IWA Publishing Journals 2020

With our expanding coverage of water and wastewater research, IWA Publishing continues to provide academics, students and researchers with a wealth of high quality resources for their research and information.

What is new?

- *High Impact* – our impact factors saw large increases and on average they rose by 26.2%.
- *Blue-Green Systems* – Our newest fully Open Access journal is now live. In a successful first issue, one research paper was downloaded over 1000 times.
- *Hydrology Research* – Our leading journal is now fully Open Access. You can find out more about the journal on page 6 and our Hydrology Research affiliate programme on page 14.
- *Ingeniería del agua* – This Spanish and Portuguese journal is now available, completely Open Access on iwaponline.com.
- *Read & Publish deals* – We have recently signed a number of deals with leading institutions allowing free access to all IWA Journals for affiliated researchers and free Open Access publication for affiliated authors. Find out more on page 13.

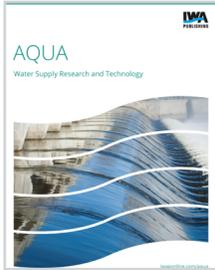
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Impact Factor
1.051

AQUA

ISSN 0003-7214 EISSN 1605-3974

Editors: Martin Pivokonsky, Institute of Hydrodynamics ASCR, Czech Republic; Ashok K.Sharma, Victoria University, Australia; Saroj Kumar Sharma, IHE Delft Institute for Water Education, The Netherlands; Hsin-Hsin Tung, National Taiwan University, Taiwan.

About:

- Research papers that cover the entire water cycle.
- The latest developments in water supply technology and management.

The journal's scope includes:

Sustainable water resources management: Source water quality, quantity, protection, applied limnology, hydraulics of water systems including source waters, treatment and distribution systems, water treatment processes, residuals treatment and management, modelling of source waters, treatment and distribution systems, applied methods to characterize water quality, distribution systems, water system management and policy: legislation, economics, public relations, crisis management, public health, risk assessment, regulations and standards, water reclamation and reuse, irrigation and desalination systems for water supply.



Open Access

Blue-Green Systems

EISSN 2617-4782

Editors in Chief: Ana Deletic, University of New South Wales, Australia; Jiuhui Qu, Chinese Academy of Sciences, China

About:

- The best research on sustainable, energy efficient water use in cities.
- Fully Open Access.
- APCs waived until 2021.

Includes research on innovative approaches such as Sponge Cities, Low Impact Development, Nature Based Solutions and Water Sensitive Urban Design. Welcomes contributions from engineers, economists, planners, hydrologists, ecologists, sociologists, architects, landscape designers, health workers, policymakers and anyone else engaged in solving the water challenges of a rapidly urbanizing planet. Work at city, watershed, basin and region level is all of interest.



Open Access

H2Open Journal

EISSN 2616-6518

Editors in Chief: Ashok Chapagain, University of Free State, South Africa; Francesco Fatone, Universita Politecnica delle Marche, Italy; Rita Henderson, University of New South Wales, Australia; Bruce Jefferson, Cranfield Water Science Institute, UK; D. Nagesh Kumar, Indian Institute of Science, India; Xiaochang C. Wang, Xi'an University of Architecture and Technology, China.

About:

- The high quality, interdisciplinary, Open Access journal for the water community.
- APCs waived until 2021.

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, political, and economic factors. It considers research papers, critical reviews and short communications; multi-disciplinary articles are encouraged. The journal's scope is very broad, encompassing all areas of water in today's society.



Impact Factor
2.475

Open Access

Hydrology Research

ISSN 1998-9563/EISSN 2224-7955

Editors in Chief: Bjørn Kløve, University of Oulu, Finland; Nevil Wyndham Quinn, University of the West of England, UK

- Official Journal of IHS and DHG.
- Published in Partnership with BHS and NHS.
- Fully Open Access from January 2020!

Hydrology Research is an international, peer-reviewed journal publishing articles providing a distinct, novel contribution to the science of hydrology and water management, including: Surface and groundwater hydrology, hydrological processes, hydrological extremes and the impact of anthropogenic change on hydrological systems. Methodological innovation regarding hydrological observations, data analysis, modelling and management. Hydrological analysis for the design, operation and management of engineered and natural water systems. Insightful analysis and new approaches to linking hydrology with the social, economic and legal aspects of water resource management. Innovative, integrated and holistic aspects of the water-energy-food nexus.



Indexed in the DOAJ

Open Access

Ingeniería del agua

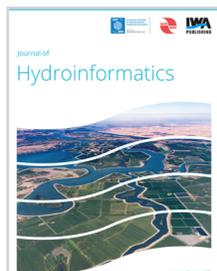
ISSN 1134-2196 EISSN 1886-4996

Director (Editor in Chief): Javier González Pérez, Universidad de Castilla, Spain

About:

- *The* fully Open access water research journal published in Spanish and Portuguese.
- Reducing barriers to the further dissemination of cutting-edge research globally.

Communities in Ibero-America, and by extension, the Spanish and Portuguese speaking communities all over the world serve as the journal's main audience. It is of great interest that the research, results, and information published in the journal addresses how to resolve existing problems in various nations, is able to reach not only scientific and academic audiences but also technicians, analysts, and lawmakers within these regions. The journal has an impact on the advancement of knowledge, the development of societies, and the enrichment of technical language in the field of water engineering. **N:B This journal is published in Spanish and Portuguese only.**



Impact Factor
1.908

Journal of Hydroinformatics

ISSN 1464-7141

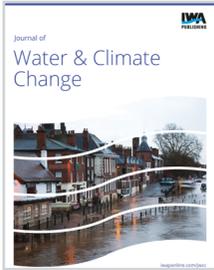
EISSN 1465-1734

Editor in Chief: Orazio Guistolisi, Politecnico di Bari, Italy

About:

- Devoted to the application of information technology in the widest sense to problems of the aquatic environment.
- Founded by Michael B Abbot who created the concept of hydroinformatics.

Promotes hydroinformatics as a cross-disciplinary field of study, combining technological, human-sociological and more general environmental interests, including an ethical perspective. Contributions will be published in the following areas: physically-based simulation modelling, numerical methods, data-driven modelling and management, artificial neural networks, evolutionary methods, cellular automata, modelling systems, geographic information systems (GIS) and virtual imaging, ecology and water quality modelling, environmental impact assessment, knowledge engineering and management, socio-economic framework, intelligent decision support, negotiation and management, education and training, internet-based.



Impact Factor
1.009

Journal of Water & Climate Change

ISSN 2040-2244 EISSN 2408-9354

Editor in Chief: Chris Perera, Victoria University, Australia

About:

- Although there are many journals on climate science, and journals on water that include climate impact, the *Journal of Water & Climate Change* is unique in being dedicated to address issues to water and climate change.

The Journal of Water & Climate Change publishes novel peer-reviewed 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. Review papers are particularly encouraged.



Impact Factor
1.683

Journal of Water & Health

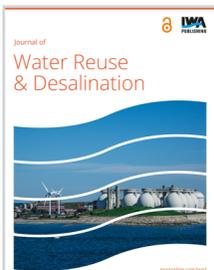
ISSN 1477-8920 EISSN 1996-7829

Editor in Chief: Nicholas J. Ashbolt, University of Alberta, Canada

About:

- The official journal of the World Health Organization.

The Journal of Water & 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 for developing and developed countries worldwide. This includes microbial toxins, chemical quality and the aesthetic qualities of water.



Impact Factor
1.538

Journal of Water Reuse & Desalination

ISSN 2220-1319 EISSN 2408-9370

Editors: Blanca Jiménez Cisneros, Secretary of the International Hydrological Programme, UNESCO; Jörg E. Drewes, Technische Universität München, Germany; Stephen Gray, Victoria University, Australia; In S. Kim, Gwangju Institute of Science and Technology, Korea; How Yong Ng, National University of Singapore, Singapore

About

- *The Open Access* desalination journal.
- Truly international – authors come from over 50 countries, many in the developing world.
- Higher submission word count allowed than a lot of other journals and low APC!

The Journal of Water Reuse & Desalination is an international open access 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. Publishes review articles, theoretical and experimental research papers, new findings and issues related to non-potable and potable water reuse applications and desalination. The journal welcomes contributions from developing and developed countries.





Impact Factor
0.977

Journal of Water, Sanitation & Hygiene for Development

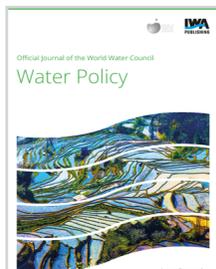
ISSN 2043-9083 EISSN 2408-9362

Editors in Chief: Barbara Evans, University of Leeds, UK; Guy Howard, University of Bristol, UK

About:

- Supports authors in lower and middle income countries.
- Emphasises issues of concern in developing countries.

The *Journal of Water, Sanitation & 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. Focuses on the areas of research concerning developing countries including, water supply, technical and managerial issues, institutional development, financing and economic analysis and policy.



Impact Factor
1.011

Water Policy

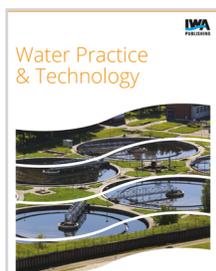
ISSN 1366-7017 EISSN 1996-9759

Editor in Chief: Dr. Jerome Delli Priscoli, USA

About:

- Official Journal of the World Water Council.
- Only journal aimed directly at policy makers.

Throughout the world, there is a growing need to build a capacity for integrated water management in order to create new opportunities for cooperation, community and peace building; to respond to scarcities; and to manage local, national and trans-boundary conflicts. Building this capacity for integrated water management calls for a new dialogue between many different private and public communities - policy making, diplomatic, administrative, financial, legal and technical/scientific. *Water Policy* provides a forum for this dialogue. It invites these communities into this forum both to shape and to be shaped by thinking and debate on water policy worldwide.



Indexed in the
Emerging Sources
Citation Index

Water Practice & Technology

EISSN 1751-231X

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

About:

- Our only journal aimed directly at practitioners.
- Includes case studies, "know-how" reports and full-scale applications of new technologies.

Water Practice & Technology presents papers on all practical aspects of water and wastewater treatment and management throughout the water cycle. Papers are aimed at practitioners, but will also be of interest to scientists, managers and those active in training and professional development. Subjects covered include solutions to practical problems in the design, operation or management of water supply, wastewater treatment, drainage and flood protection, and environmental management, including social, economic and public participation aspects of water. This includes informative case studies, practical "know-how" reports, full-scale applications of new technologies, "best practice" and applied management concepts, including lessons learnt from unsuccessful experiences.



Water Quality Research Journal



Impact Factor
0.600

Water Quality Research Journal

ISSN 1201-3080 EISSN 2408-9443

Chief Editors: Peter Vanrolleghem, Laval University, Canada; Arash Zamyadi, Water Research Australia & UNSW Sydney, Australia

About:

- Longest running IWA Publishing Journal (Launched in 1966).
- Official journal of the CAWQ.

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. The journal publishes peer-reviewed, scholarly articles on general subject areas such as; current and emerging contaminants on aquatic ecosystems, aquatic ecology, and conservation of aquatic environments, drinking water, surface and subsurface water quality and social science issues in relation to water quality.



Water Science & Technology



Impact Factor
1.624

Water Science & Technology

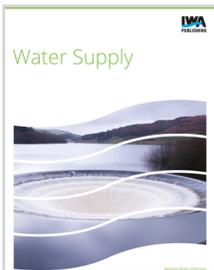
ISSN 0273-1223 EISSN 1996-9732

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

About:

- Our largest journal, with more issues annually than any other IWA Publishing journal.
- Extensive archive back to 1982.
- Authoritative and reliable papers respected by both academics and professionals.

Water Science & Technology publishes peer-reviewed papers on all aspects of the science and technology of wastewater treatment and water quality management worldwide. *Water Science & Technology*, together with *Water Supply* and *Water Practice & Technology*, have 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. Papers describing progress in full-scale implementations are particularly encouraged. *Water Science & Technology* offers fast publication for new findings and research directions.



Water Supply



Impact Factor
0.922

Water Supply

ISSN 1606-9749 EISSN 1607-0798

Editor in Chief: Slobodan Djordjevic, University of Exeter, UK

About:

- Focuses on all aspects of water supply, not only on new scientific advances but also presents the technological aspects of this large subject area.

Water Supply is an international peer-reviewed journal that focuses on all aspects of water supply. The scope of the journal falls within three distinct areas; Water Quality, Modelling and Management. We will accept papers within the following areas; Water treatment technologies, including reuse and recycling, water distribution systems and the Water-energy-food-nexus.

Institutional Subscription Prices

Journal	Online Only			Print & Online		
AQUA ISSN 0003-7214	£1,002	\$1,716	€1,448	£1,102	\$1,888	€1,593
Hydrology Research ISSN 1998-9563/EISSN 2224-7955	Transitioned to Open Access in January 2020, for information about our <i>Hydrology Research</i> affiliate programme, please see page 14.					
Journal of Hydroinformatics ISSN 1464-7141	£1,620	\$2,867	€2,526	£1,782	\$3,154	€2,779
Journal of Water & Climate Change ISSN 2040-2244	£1,108	\$1,753	€1,389	£1,219	\$1,928	€1,528
Journal of Water & Health ISSN 1477-8920	£1,373	\$2,480	€2,024	£1,510	\$2,728	€2,226
Journal of Water, Sanitation & Hygiene for Development ISSN 2043-9083	£1,160	\$1,915	€1,454	£1,276	\$2,107	€1,599
Water Policy ISSN 1366-7017	£1,207	\$2,346	€1,897	£1,328	\$2,581	€2,087
Water Practice & Technology ISSN 1751-231X	£321	\$609	€466			
Water Quality Research Journal ISSN 1201-3080	£602	\$932	€903	£662	\$1,025	€993
Water Science & Technology ISSN 0273-1223	£6,104	\$11,225	€9,400	£6,714	\$12,348	€10,340
Water Supply ISSN 1606-9749	£2,619	\$4,635	€4,232	£2,881	\$5,099	€4,655

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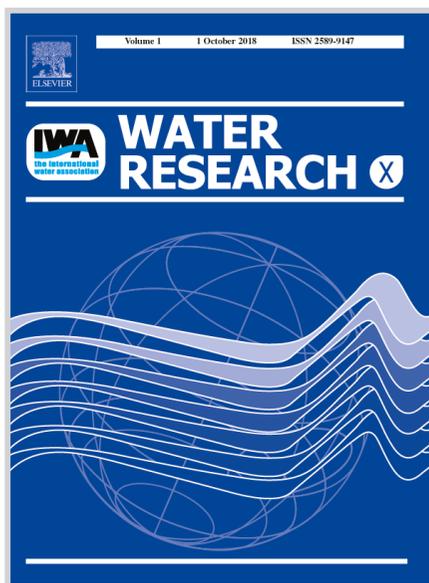
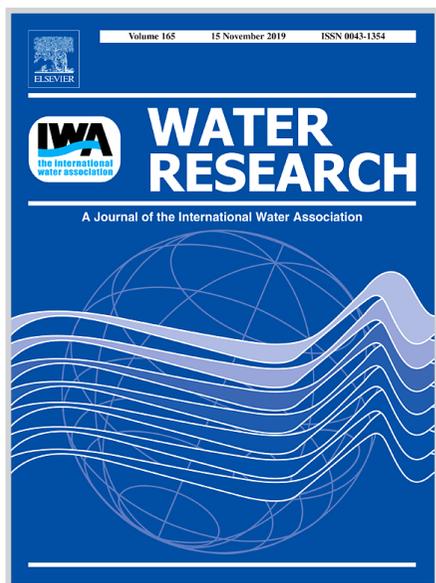
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Editor in Chief – Professor Eberhard Morgenroth

Water Research (Impact Factor 7.913) has an open access mirror journal *Water Research X* (ISSN: 2589-9147) sharing the same aims and scope, editorial team, submission system and rigorous peer review. *Water Research* publishes refereed, original research papers on all aspects of the science and technology of water quality and its management worldwide.

A broad outline of the journal's scope includes:

- Treatment processes for water and wastewaters, municipal, agricultural and industrial, including residuals management.
- Water quality monitoring and assessment, based on chemical, physical and biological methods.
- Studies on inland, tidal or coastal waters and urban waters, including surface and ground waters, and point and non-point sources of pollution.
- The limnology of lakes, impoundments and rivers.
- Solid and hazardous waste management, including source characterization and the effects and control of leachates and gaseous emissions.
- Environmental restoration, including soil and groundwater remediation.
- Analysis of the interfaces between sediments and water, and water/atmosphere interactions.
- The application of mathematical modelling and system analysis techniques.
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You can find a list of our APC's for each journal on page 15



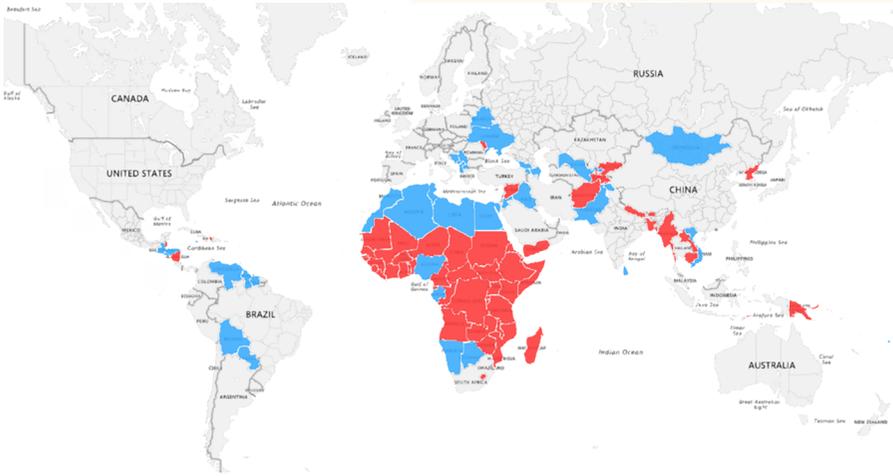
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- Open Access to *Hydrology Research* throughout 2020.
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Journal	APC
H ₂ Open Journal	APC Waived until 2021
Blue-Green Systems	APC Waived until 2021
Journal of Water Reuse & Desalination	\$1050 / £810 / €950
Hydrology Research (Open Access from 2020)	\$1850 / £1400 / €1650

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Journal of Water, Sanitation & Hygiene for Development	\$1850 / £1400 / €1650
Water Quality Research Journal	\$1850 / £1400 / €1650
Journal of Water & Climate Change	\$1850 / £1400 / €1650
Water Practice & Technology	\$1850 / £1400 / €1650
Journal of Hydroinformatics	\$1850 / £1400 / €1650
Water Policy	\$2250 / £1700 / €2005

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Books

Length	BPC
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100-300 Pages	£10,000
300-500 Pages	£15,000

Please contact mhammond@iwap.co.uk to discuss OA book publishing.

Hydrology Research

Latest impact factor

INCREASED

by
37.4%

to
2.475

1,714

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- **Full access to IWA Connect**
- **Participation in IWA Specialist Groups**
- **Free access to IWA's magazine *The Source***
- **Discounts on IWA Events' and Exhibition fees**

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- **Participation in IWA Specialist Groups**
- **Profile on and access to IWA Connect**
- **Full access to IWA's magazine *The Source***
- **Discounts on IWA Events and Exhibition fees.**

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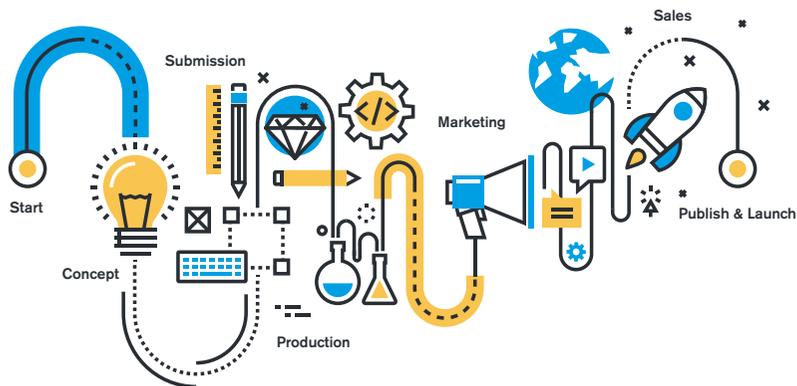
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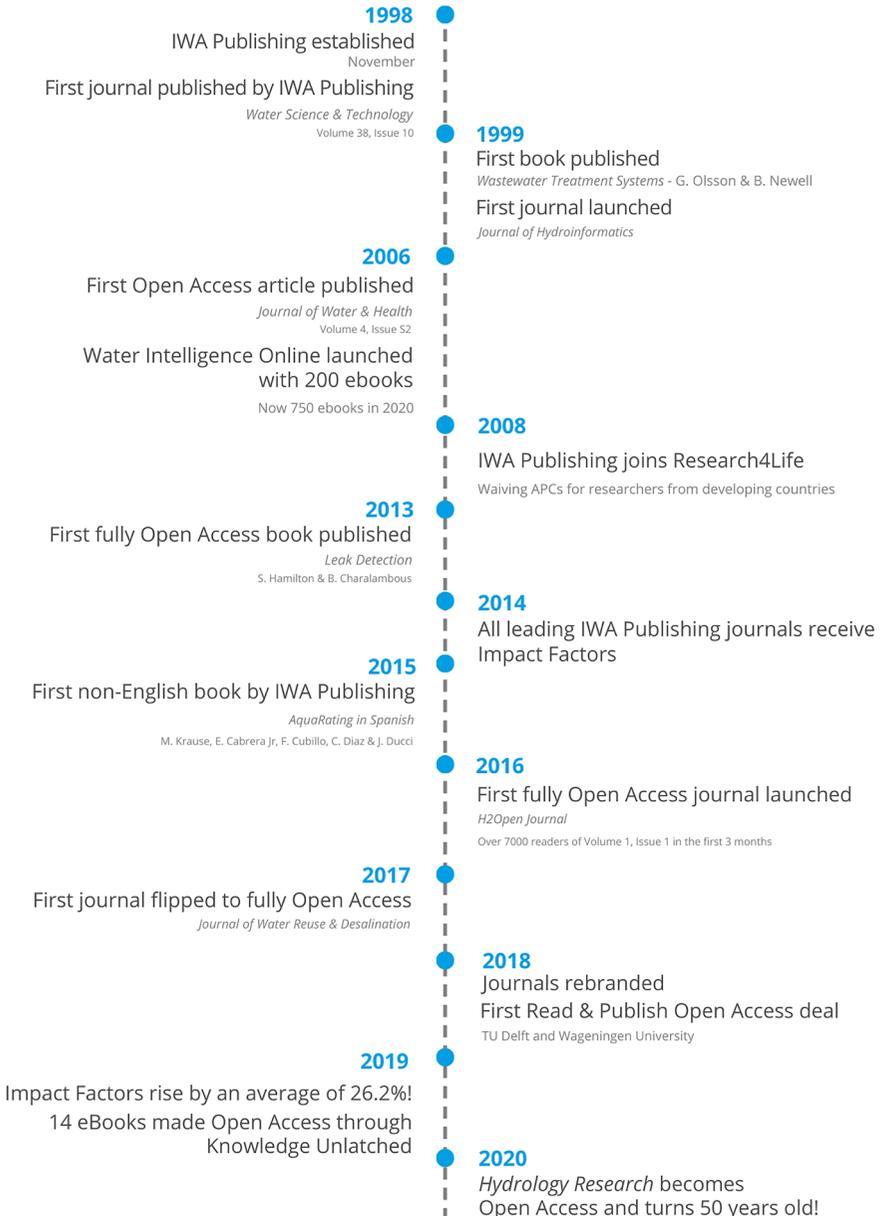
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Industry & Water

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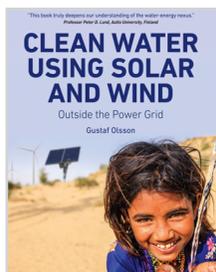
Utility / Network Management

Wastewater, Reuse & Sludge

Water Resources / Environment

Water Supply & Treatment

Health Issues



Clean Water Using Solar and Wind: Outside the Power Grid

Author: Gustaf Olsson

ISBN: 9781780409436

210 Pages · January 2019

Open Access eBook

Print Price: £50.00/ \$75.00 /€63.00

Solar photo-voltaic (PV) and wind offer to bring both clean energy and clean water to remote regions and peri-urban areas in the world, outside the conventional electric grids. One out of seven people has no electric power available that would bring light to the home, cook the food, pump to access water and purify or re-use it. Off-grid systems are scalable and can be designed to any size, from household to village and community levels. The renewable energy cost development is remarkable and can make electric power affordable also for the poorest. This book aims to show how clean water and clean energy are reachable for all while contributing to both a better climate and a healthier life.

**Water Resources /
Environment**

Developing Countries



Human Acceleration of the Nitrogen Cycle: Managing Risks and Uncertainty

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

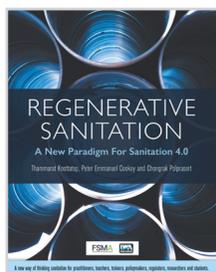
ISBN: 9781789060430

176 Pages · February 2019

Standard Price: £32.00/ \$48.00 /€40.00

This publication examines the risks associated with the release of excessive nitrogen into the environment (climate change, depletion of the ozone layer, air pollution, water pollution, loss of biodiversity, deterioration of soil quality). The report also examines the uncertainty associated with the ability of nitrogen to move from one ecosystem to another and cause "cascading effects". In addition to better management of nitrogen risks at the local level, there is a need to consider the global risks associated with the continued increase in nitrous oxide concentrations and to prevent excess nitrogen in all its forms by developing cost-effective strategies for all its sources. Other than the reduction of nitrogen pollution, this report provides guidance on the use of nitrogen policy instruments and how to ensure coherence with objectives such as food security, energy security and environmental objectives.

**Water Resources /
Environment**



Regenerative Sanitation: A New Paradigm For Sanitation 4.0

Editors: Thammarat Koottatep, Peter Emmanuel Cookey and Chongrak Polprasert

ISBN: 9781780409672

350 Pages · February 2019

Open Access eBook

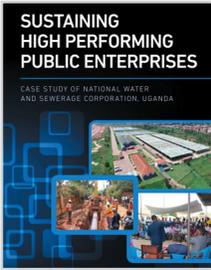
Print Price: £99.00/ \$149.00 /€124.00

This book proposes Regenerative Sanitation as the next era of sanitation management and attempts to provide a foundation for the study of sanitation on the premise that sanitation is a complex and dynamic system that comprises of social-ecological, technological and resource systems. The preconception is that sanitation will deliver maximal benefits to society only when there exists a cyclical integration of the three subsystems to enable appropriate linkages between 'technological design' and the 'delivery platform' so as to achieve optimal and sustained sani-solutions. It also calls for the rethinking of sanitation to change the narrative towards more progressive trajectories such as resource recovery and reuse rather than just amelioration. It explores the contributions to food security, livelihood support, urban regeneration, rural development and even local economies.

**Wastewater,
Reuse & Sludge**

Developing Countries

Health Issues



Developing Countries

Utility / Network Management

Policy & Governance

Sustaining High Performing Public Enterprises: Case Study of National Water and Sewerage Corporation, Uganda

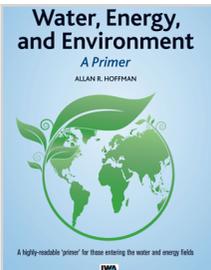
Author: **Silver Mugisha**

ISBN: 9781789060249

164 Pages · February 2019

Standard Price: **£55.00/ \$83.00/ €69.00**

This book presents steps taken by National Water and Sewerage Corporation of Uganda, a typical public enterprise, to sustain a high performance momentum after over 15 years of successful utility reforms. Specifically, the author pinpoints key achievements during the period 2013–2018. The concept of new public management (NPM) is used to set the scene for a case description of various initiatives and innovations implemented. A balanced scorecard framework is used to characterize the various activities. The book highlights a shift from over-emphasis on positive cash-flows alone to a balanced approach to ‘water for all’ citizens. The need to balance technical work and political aspirations is highlighted. Also featured is the nexus between utility operations and environmental protection to ensure sustainable water supply.



Water Resources / Environment

Water, Energy, and Environment – A Primer

Editor: **Alan R. Hoffman**

ISBN: 9781780409641

200 Pages · February 2019

Open Access eBook

Print Price: **£70.00/ \$105.00/ €88.00**

This book provides an introduction to, and explanation of, the beginning of the energy revolution we are currently experiencing. Specific topics discussed, in addition to explaining the nexus, include: the global contexts for water and energy issues; associated environmental impacts; traditional and emerging energy options (fossil fuels, nuclear power, renewable energies); new approaches to providing clean water; the emerging role of energy storage; policy issues associated with water, energy, and environment, and recommendations for moving forward. The purpose of this book is to explain the nexus and each of its components in a university-level, highly readable ‘primer’ for those entering the water and energy fields.



Water Supply & Treatment

Industry & Water

Future Drinking Water Infrastructure: Building Blocks for Drinking Water Companies for their Strategic Planning

Editors: **Mirjam Blok, Claudia Agudelo-Vera, Luc Palmen, Chris Büscher and Inke Leunk**

ISBN: 9781789060485

190 Pages · March 2019

Open Access eBook only

Future drinking water infrastructure is an Open Access co-publication with KWR.





Water Supply
& Treatment

Industry & Water

Public Involvement in Knowledge Generation: Citizen Science Opportunities in the Dutch Water Sector

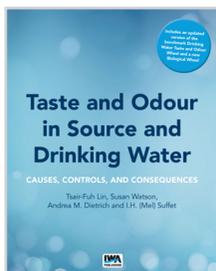
Authors: **Timo Maas and Stijn Brouwer**

ISBN: 9781789060492

42 Pages · March 2019

Open Access eBook only

Public Involvement in Knowledge Generation is an Open Access co-publication with KWR.



Water Resources /
Environment

Water Supply
& Treatment

Taste and Odour in Source and Drinking Water: Causes, Controls, and Consequences

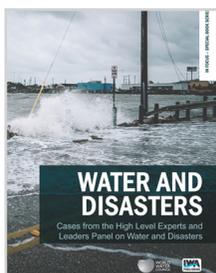
Editors: **Tsair-Fuh Lin, Susan Watson, I. H. (Mel) Suffet and Andrea M. Dietrich**

ISBN: 9781780406657

320 Pages · March 2019

Standard Price: £95.00/ \$143.00/ €119.00

This book provides an updated evaluation of the characterization and management of taste and odour (T&O) in source and drinking waters. It 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. The book 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.



Policy & Governance

Urban Water

Water Resources /
Environment

Water and Disasters: Cases from the High Level Experts and Leaders Panel on Water and Disasters - *In Focus - Special Book Series*

Editors: **Jerome Delli Priscoli and Kenzo Hiroki**

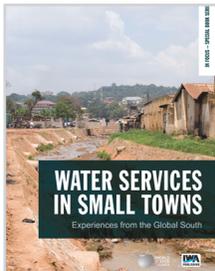
ISBN: 9781789060782

230 Pages · May 2019

Standard Price: £125.00/ \$188.00/ €156.00

The issue of "water and disasters" must be addressed if we hope to make sustainable development a reality. We must share our experiences and lessons learned, strengthen regional coordination and collaboration, and set common goals and targets in order to lay a foundation for weathering the water-related disasters to come, and make progress towards creating a better-prepared and more resilient society.

The High Level Experts and Leaders Panel on Water and Disasters (HELP) was established to assist the international community, governments and stakeholders in mobilizing political will and resources. It promotes actions to raise awareness, ensure coordination and collaboration, establish common goals and targets, monitor progress, and take effective measures aimed at addressing the issues of water and disasters. Members of HELP solicited the 10 case studies on water and disasters that form this book.



Developing Countries

Policy & Governance

Utility / Network
Management

Water Supply
& Treatment

Water Services in Small Towns: Experiences from the Global South - In Focus - Special Book Series

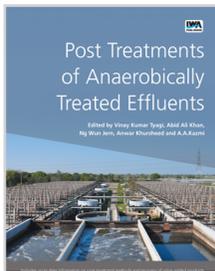
Editors: Klaas Schwart and Mireia Tutusaus

ISBN: 9781789060607

120 Pages · May 2019

Standard Price: £75.00/ \$113.00/ €94.00

This book aims to contribute to the study of water services in small towns by critically examining different approaches and experiences of water supply in small towns. It brings together empirical testimonies of how the implementation of reductionist models and the perseverance of certain principles underlying these models in the water sector have yielded suboptimal results. Much remains to be done before achieving universal service coverage in small towns is likely. In order to do that, we should start speaking of small towns as a category on their own and continue the work in elaborating further what these are and how they work.



Post Treatments
of Anaerobically
Treated Effluents

Edited by Vinay Kumar Tyagi, Abid Ali Khan,
Ng Wun Jer, Anwar Khursheed and A.A. Kazmi

Wastewater,
Reuse & Sludge

Post Treatments of Anaerobically Treated Effluents

Editors: Vinay Kumar Tyagi, Abid Ali Khan, Ng Wun Jer, Anwar Khursheed and A. A. Kazmi

ISBN: 9781780409733

460 Pages · June 2019

Standard Price: £130.00/ \$195.00/ €163.00

This book discusses anaerobic treatment from the perspective of organic wastes and wastewaters followed by various post-treatment options for anaerobic effluent polishing and resource recovery. Coverage will also be from the perspective of future trends and thoughts on anaerobic technologies being able to support meeting the increasingly stringent disposal standards. The resource recovery angle is particularly interesting as this can arguably help achieve the circular economy. The information can be used to identify appropriate solutions for anaerobic effluent treatment and possible alternative approaches to the commonly applied post-treatment techniques. The succeeding discussion is intended to lead on to identification of opportunities for further research and development. The book can be used as a standard reference book and textbook in universities for Master and Doctoral students. The academic community relevant to the subject will find the book both informative and as a useful source of successful case studies.



ALGAL
TECHNOLOGIES
for Wastewater Treatment and Resource Recovery

Wastewater,
Reuse & Sludge

Water Resources /
Environment

Urban Water

Algal Technologies for Wastewater Treatment and Resource Recovery - In Focus - Special Book Series

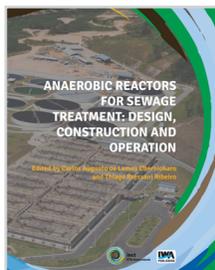
Editors: Raul Muñoz, Hardy Temmink, Anthony M. Verschoor and Peter van der Steen

ISBN: 9781789060928

250 Pages · July 2019

Standard Price: £125.00/ \$188.00/ €156.00

This book compiles the main outcomes of recent efforts to improve the design of waste stabilisation ponds, and confirms the superior performance of high rate algal ponds as a result of process intensification. Anaerobic digestion devoted to biogas production continues to be the preferred strategy for the energy valorisation of the algal biomass, co-digestion with multiple high C/N ratio substrates gathering significant attention over the past years. The potential of algal biomass as a biosorbent for heavy metal removal (Cu, Ni, F) maintains its share in the research field of water bioremediation, while research on nutrient removal has focused on providing new insights on the mechanism of nitrogen and phosphorus removal from wastewater in algal-bacterial systems.



Wastewater,
Reuse & Sludge

Water Resources /
Environment

Anaerobic Reactors for Sewage Treatment: Design, construction and operation

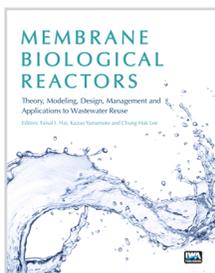
Editors: Carlos Augusto de Lemos Chernicharo and Thiago Bressani-Ribeiro

ISBN: 9781780409221

420 Pages · July 2019

Standard Price: £95.00/ \$143.00/ €119.00

This book delivers the most relevant techno-scientific developments from academia and water authorities, comprehensively addressing the main aspects of interest in design, construction, and operation of UASB reactors for sewage treatment. Special attention is given to the proper and integrated management of sludge, scum, gaseous emissions, energy recovery, and effluent quality. The main purpose is to provide information and share experiences not yet compiled in the specialized literature on anaerobic sewage treatment. Therefore, a sequence of 12 well-interconnected chapters consolidates the practical knowledge and experiences that important research groups and recognized professionals worldwide have acquired over the past 20 years in demo- and full-scale anaerobic-based sewage treatment plants. This book can significantly contribute towards a responsible expansion of the anaerobic technology in the world. The book is a valuable tool for engineers, constructors, operators, wastewater utility managers, as well as for students interested in anaerobic processes for sewage treatment.



Wastewater,
Reuse & Sludge

Water Resources /
Environment

Water Supply
& Treatment

Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse - Second Edition

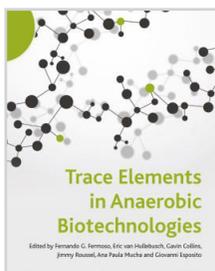
Editors: Faisal I. Hai, Kazuo Yamamoto and Chung-Hak Lee

ISBN: 9781780409160

600 Pages · July 2019

Standard Price: £130.00/ \$195.00/ €163.00

In the second edition, the chapters have been updated to cover the recently emerged issues. Particularly, the book presents the current status of the technology including market drivers/ restraints and development trend. Process fundamentals (both the biological and membrane components) have received in-depth coverage in the new edition. A new chapter has been added to provide a stronger focus on reuse applications in general and the decisive role of MBR in the entire reuse chain. The second edition also comes with a new chapter containing practical design problems to complement the concepts communicated throughout the book. Other distinguishing features of the new edition are coverage of novel developments and hybrid processes for specialised wastewaters, energy efficiency and sustainability of the process, aspects of MBR process automation and recent material on case studies.



Wastewater,
Reuse & Sludge

Trace Elements in Anaerobic Biotechnologies

Editors: Fernando G. Feroso, Eric Van Hullebusch, Gavin Collins, Jimmy Roussel, Ana Paula Mucha and Giovanni Esposito

ISBN: 9781789060218

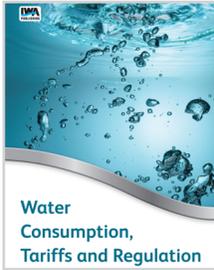
240 Pages · July 2019

Open Access eBook

Print Price: £95.00/ \$143.00/ €119.00

The book results from the EU COST Action on 'The ecological roles of trace metals in anaerobic biotechnologies'. Trace elements in anaerobic biotechnologies is a critical, exceptionally complex and technical challenge. The challenging chemistry underpinning the availability of trace elements for biological uptake is very poorly understood, despite the importance of trace elements for successful anaerobic operations across the bioeconomy. This book discusses and places a common understanding of this challenge, with a strong focus on technological tools and solutions. The group of contributors brings together chemists with engineers, biologists, environmental scientists and mathematical modellers, as well as industry representatives, to show an up-to-date vision of the fate of trace elements on anaerobic biotechnologies.





Water Consumption, Tariffs and Regulation

Policy & Governance

Water Resources / Environment

Water Consumption, Tariffs and Regulation

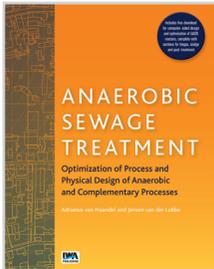
Editors: Francesc Hernandez-Sancho and Maria Molinos-Senante

ISBN: 9781780404677

200 Pages · July 2019

Standard Price: £85.00/ €128.00/ €106.00

This book aims to provide a statistical overview of 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 the 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 analyzing the importance of the variable and fixed charge. Part III analyses the main aspects relative to water regulation and describes the importance of private operators in the management of the water cycle.



ANAEROBIC SEWAGE TREATMENT

Optimization of Process and Physical Design of Anaerobic and Complementary Processes

Authors: van Haandel and Jeroen van der Lubbe



Wastewater, Reuse & Sludge

Anaerobic Sewage Treatment: Optimization of process and physical design of anaerobic and complementary processes

Authors: Adrianus van Haandel and Jeroen van der Lubbe

ISBN: 9781780409610

400 Pages · August 2019

Standard Price: £75.00/ \$113.00/ €94.00

Anaerobic digestion has been applied increasingly over the last decades for sewage treatment, especially in regions with a warm climate. In this book, it is shown that the Upflow Anaerobic Sludge Blanket (UASB) reactor is rightfully the most applied full-scale system, because it has a superior treatment efficiency and can be operated at a shorter retention time than other modern anaerobic wastewater treatment systems. Written primarily as a textbook to be used at higher education institutes for educational purposes, this important new publication will also of interest to practitioners and academics. Readers of this book can download a spreadsheet for computer-aided design and optimization of UASB reactors, complete with sections for biogas, sludge and post-treatment, that will show the reader alternative designs of all aspects of UASB reactor design and complementary treatment units with every mouse click.



ENVIRONMENTALLY FRIENDLY (BIO)TECHNOLOGIES

for the Removal of Emerging Organic and Inorganic Pollutants from Water



Urban Water

Water Supply & Treatment

Wastewater, Reuse & Sludge

Environmentally Friendly (Bio)Technologies for the Removal of Emerging Organic and Inorganic Pollutants from Water - In Focus - Special Book Series

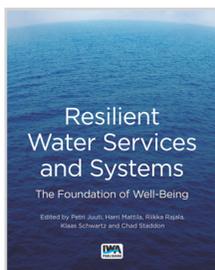
Editors: Eldon R. Rene, Li Shu and Veeriah Jegatheesan

ISBN: 9781789061017

224 Pages · August 2019

Standard Price: £125.00/ \$188.00/ €156.00

This book highlights the impacts of emerging pollutants (both organic and inorganic) in water bodies and the role and performances of different water and wastewater treatment approaches that are presently being employed in the field of environmental engineering. Some of these approaches are focused on 'end-of-pipe' treatment, while most of these approaches are focused on the application of novel physico-chemical and biological techniques for wastewater treatment and reuse. The goal of this book is to present the emerging technologies and trends in the field of water and wastewater treatment. The papers in this book provide clear proof that environmentally friendly (bio)technologies are becoming more and more important and playing a critical role in removing a wide variety of organic and inorganic pollutants from water.



Resilient Water Services and Systems

The Foundation of Well-Being

Edited by Petri Juuti, Harri Mattila, Riikka Rajala, Klaas Schwartz and Chad Staddon



Water Resources / Environment

Water Supply & Treatment

Resilient Water Services and Systems: The Foundation of Wellbeing

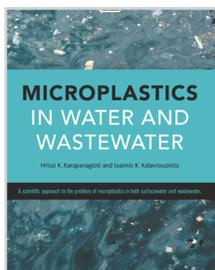
Editors: Petri S. Juuti, Harri Mattila, Riikka Rajala, Klaas Schwartz and Chad Staddon

ISBN: 9781780409764

250 Pages • August 2019

Standard Price: £95.00/ \$143.00/ €119.00

This book provides an overarching framework on water and sanitation services and how they are coping with resilience, aging infrastructure and climate change. The Editors present conceptual evidence about resilience backed by case studies that demonstrate resilience in practice. There are 13 case studies, from Asia, Africa, Europe and North and South America, providing informative perspectives from around the world. Resilient water services are the key to water security across the world. Sustaining them is a challenging task in high-income countries where aging infrastructure is a critical issue, and in low-income countries where new infrastructure is needed and ability-to-pay is a more formidable barrier to success. The editors have compiled a succinct analysis and assembled case studies that cover diverse regions and contexts. From this book the reader will gain a wealth of knowledge about water services, as well as rich vicarious experiences from the cases.



MICROPLASTICS IN WATER AND WASTEWATER

Hrissi K. Karapanagioti and Ioannis K. Kalavrouziotis

A scientific approach to the problem of microplastics in both surface and subsurface

Water Resources / Environment

Wastewater, Reuse & Sludge

Water Supply & Treatment

Microplastics in Water and Wastewater

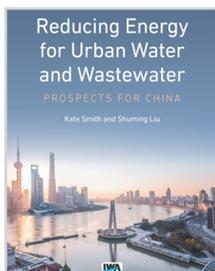
Editors: Hrissi Karapanagioti and Ioannis K. Kalavrouziotis

ISBN: 9781789060027

160 Pages • September 2019

Standard Price: £75.00/ \$113.00/ €94.00

This book covers the topic of microplastics in water and wastewater. The chapters start with introductory issues related to the growing interest in the scientific community on microplastics and the human water cycle and point out where the microplastics could interact with water. The subsequent chapters examine evidence of the microplastic presence in freshwater, such as in both rivers and lakes, in freshwater biota, and hazardous chemicals associated with microplastics in such systems. The topic of microplastics in freshwater systems and in wastewater has scarcely been studied and requires more attention. Microplastics in Water and Wastewater aims to bring these initial findings to the attention of a broader audience and especially to operators and managers of freshwater and wastewater systems. It will also be helpful to people already aware of the marine debris problem to understand the sources of microplastics in the oceans, from freshwater systems and wastewater treatment plants.



Reducing Energy for Urban Water and Wastewater

PROSPECTS FOR CHINA

Kate Smith and Shuming Liu



Urban Water

Policy & Governance

Reducing Energy for Urban Water and Wastewater: Prospects for China

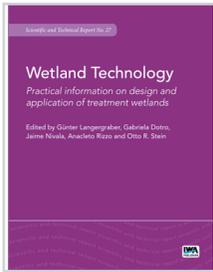
Authors: Kate Smith and Shuming Liu

ISBN: 9781780409931

170 Pages • September 2019

Standard Price: £70.00/ \$105.00/ €88.00

Cities use large amounts of costly energy to supply water and treat wastewater, especially in China, one of the world's largest providers of urban water and sanitation services. This book shows how cities can reduce energy use, cut costs and curb greenhouse gas emissions. First, it guides the reader through water supply and wastewater treatment, explaining how energy is used at each step. Then the authors outline the most effective ideas for reducing energy use in cities, using China as a case study; provide a decision-making framework to help cities focus their efforts; investigate an often-overlooked high energy user in dense cities and suggest a way to cut energy; assess the unintended downside of stricter wastewater standards and how to optimise the upside, and provide suggestions for increasing water and energy recovery in water-scarce cities. The focus throughout is China, the biggest greenhouse gas emitter in the world.



**Wastewater,
Reuse & Sludge**

Industry & Water

Developing Countries

Wetland Technology: Practical Information on the Design and Application of Treatment Wetlands – Scientific and Technical Report Series, No. 27

Editors: Guenter Langergraber, Gabriela Dotro, Jaime Nivala, Otto R. Stein and Anacleto Rizzo

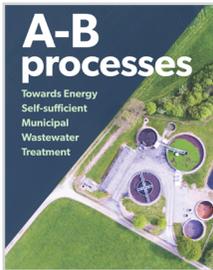
ISBN: 9781789060164

190 Pages · October 2019

Open Access eBook

Print Price: £75.00/ \$113.00/ €94.00

The first International Water Association Scientific and Technical Report (STR) on Wetland Technology was published in 2000. With the exponential development of the technology since then, the generation of a new STR was facilitated by the IWA Task Group on Mainstreaming Wetland Technology. This STR was conceptualized and written by leading experts in the field. The new report presents the latest technology applications within an innovative planning framework of multi-purpose wetland design. It also includes practical design information collected from over twenty years of experience from practitioners and academics, covering experiments at laboratory and pilot-scale up to full-scale applications.



**Wastewater,
Reuse & Sludge**

A-B processes: Towards Energy Self-sufficient Municipal Wastewater Treatment

Authors: Yu Liu, Jun Gu and Meng Zhang

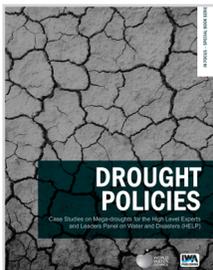
ISBN: 9781789060072

180 Pages · November 2019

Open Access eBook

Standard Price: £105.00/ \$158.00/ €131.00

This book begins with a critical overview of the energy situation and challenges in current municipal wastewater treatment plants, showing the necessity of the paradigm shift from removal to recovery in terms of energy and resource. As such, the concept of A-B process is discussed in detail in the book. It appears that various A-B process configurations are able to provide possible engineering solutions in which A-stage is primarily designed for COD capture with the aim for direct anaerobic treatment without producing excessive biosludge, while B-stage is designated for nitrogen removal. Making the wastewater treatment energy self-sustainable is obviously of global significance and eventually may become a game changer for the global market of the municipal wastewater reclamation technology. The principal audiences include practitioners, professionals, university researchers, undergraduate and postgraduate students who are interested and specialized in municipal wastewater treatment and process design, environmental engineering, and environmental biotechnology.



Policy & Governance

**Water Resources /
Environment**

Urban Water

Drought Policies: Case Studies on Mega-droughts for the High Level Experts and Leaders Panel on Water and Disasters (HELP) – In Focus - Special Book Series

Editors: Jerome Delli Priscoli and Kenzo Hiroki

ISBN: 9781789061178

264 Pages · November 2019

Standard Price: £125.00/ \$188.00/ €156.00

This book focuses on mega-droughts of the past 20 years. Twelve cases from both developed and developing countries are elaborated in the book. Its intention is to draw lessons from the cases of extremely severe water shortages so that countries and stakeholders can be better prepared for extreme drought events in the future. The book discusses the necessity to move from reactive (compensatory) to preventive policies. This theme has implications for use of insurance in developing countries. Most chapters call for more inter-sectoral policies, policies which integrate water resources management approaches and to the necessity of raising public awareness of droughts in times of no drought. The issue of structural versus non-structural is clear in most cases. Finally, a few chapters bring to light how prevention is needed for national security as well as water security.



Wastewater,
Reuse & Sludge

Health Issues

Water Supply
& Treatment

Frontier Technology for Water Treatment and Pollutant Removal – In Focus - Special Book Series

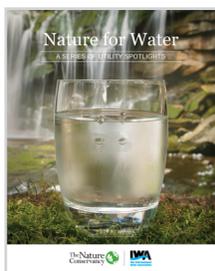
Editors: Puangrat Kajitvichyanukul, Charongpun Musikavong and Tanapon Phenrat

ISBN: 9781789061239

240 Pages · November 2019

Standard Price: £125.00/ \$188.00/ €156.00

Frontier technology in water treatment and pollutant removal is needed not only for maximizing water reuse but also for the rapid detection of contaminants in the recycled water. The UN announced the years 2018 to 2028 as the 'International Decade for Action-Water for Sustainable Development'. To realize this mission, innovative and frontier technologies for water treatment and pollutant removal are important components. This book aims to serve as a platform for updating the scientific community with recent progress in this area, covering frontier technologies in analytical technique, physicochemical treatment, chemical treatment, and biological treatment.



Utility / Network
Management

Water Resources /
Environment

Nature for Water: A Series of Utility Spotlights

Editors: Jessica Ertel, Brenda Ampomah, Katharine Cross and Aparna Sridhar

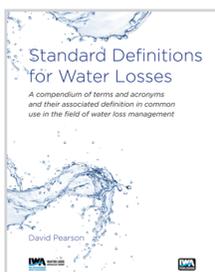
ISBN: 9781789060812

64 Pages · November 2019

Open Access eBook

Print Price: £25.00/ \$38.00/ €31.00

The International Water Association (IWA) and The Nature Conservancy (TNC) are working together to encourage and facilitate active utility involvement in nature-based solutions (NBS), as well as promoting stronger connections between water utilities and regulatory bodies. Implementation of NBS involves multiple, interdependent stakeholders at various governance levels, and consequently regulators a key role in creating the enabling environments for these interactions and negotiations. This publication taps into diverse geographies and contexts, delving into case studies for a richer conversation that addresses the variety of challenges and elements for success for integrating NBS into water utility operations and planning. By publicizing successful case studies, the IWA/TNC partnership fulfils a dual purpose of endorsing these efforts and providing actionable guidance for other water utilities striving to improve their sustainability and resiliency.



Industry & Water

Utility / Network
Management

Water Supply
& Treatment

Standard Definitions for Water Losses

Author: David Pearson

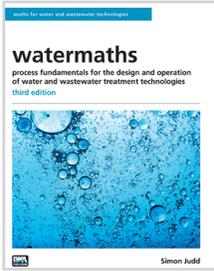
ISBN: 9781789060881

80 Pages · November 2019

Open Access eBook only

A compendium of terms and acronyms and their associated definition in common use in the field of water loss management.





Wastewater,
Reuse & Sludge

Water Supply
& Treatment

watermaths: process fundamentals for the design and operation of water and wastewater treatment technologies – third edition

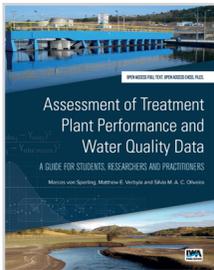
Author: Simon Judd

ISBN: 9781789060386

140 Pages · November 2019

Standard Price: £55.00/ \$83.00/ €69.00

Watermaths presents the mathematics underpinning the design and operation of the individual unit process technologies used for purifying water and wastewater. The book aims to provide the reader with sufficient information to enable them to tackle the most important calculations in this area, without requiring any prior knowledge of the subject and assuming only a very basic grounding in science or engineering. It focuses on the most essential areas of knowledge required, containing tuition in basic numeracy, chemistry, process engineering and fluid physics, as well as cost analysis. The simple and succinct delivery is designed to get the reader up to speed as rapidly as possible: sufficient background information is provided to explain the purpose of the calculations, and ultimately tackle the complete wastewater reclamation plant design problem included in the book.



Wastewater,
Reuse & Sludge

Water Supply
& Treatment

Utility / Network
Management

Assessment of Treatment Plant Performance and Water Quality Data: A Guide for Students, Researchers and Practitioners

Authors: Marcos Von Sperling, Matthew E. Verbyla and Silvia M. A. C. Oliveira

ISBN: 9781780409313

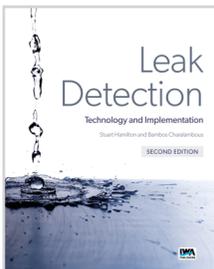
640 Pages · January 2020

Open Access eBook

Print Price: £35.00 / \$53.00/ €44.00

This book presents the basic principles for evaluating water quality and treatment plant performance in a clear, innovative and didactic way, using a combined approach that involves the interpretation of monitoring data associated with (i) the basic processes that take place in water bodies and in water and wastewater treatment plants and (ii) data management and statistical calculations to allow a deep interpretation of the data.

The major concepts are illustrated by 92 fully worked-out examples, which are supported by 75 freely downloadable Excel spreadsheets. Each chapter concludes with a checklist for your report. If you are a student, researcher or practitioner planning to use or already using treatment plant and water quality monitoring data, then this book is for you!



Industry & Water

Utility / Network
Management

Water Supply
& Treatment

Leak Detection: Technology and Implementation

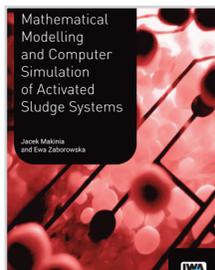
Editors: Stuart Hamilton and Bambos Charalambous

ISBN: 9781789060843

160 Pages · January 2020

Standard Price: £85.00/ \$128.00/ €106.00

Ageing infrastructure and declining water resources are major concerns with a growing global population. Controlling water loss has therefore become a priority for water utilities around the world. In order to improve their efficiencies, water utilities need to apply good practice in leak detection. To deal with losses in an effective manner, particularly from networks in water scarce areas, water utility managers are increasingly turning to technology to reduce costs, increase efficiency and improve reliability. Companies that continuously invest in technology and innovation should see a positive return on investment in terms of improving daily operations and collection and analysis of network data for decision-making and forward planning.



Wastewater,
Reuse & Sludge

Mathematical Modelling and Computer Simulation of Activated Sludge Systems

Authors: Jacek Makinia and Ewa Zaborowska

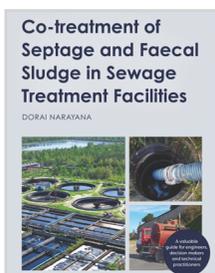
ISBN: 9781780409511

660 Pages · February 2020

Standard Price: £145.00/ \$218.00/ €181.00

This book provides, from the process engineering perspective, a comprehensive and up-to-date overview regarding various aspects of the mechanistic ("white box") modelling and simulation of advanced activated sludge systems performing biological nutrient removal. In the new edition of the book, a special focus is given to nitrogen removal and an overview of the latest developments in modelling the innovative nitrogen removal processes is provided. Furthermore, a new section on micropollutant removal has been added.

By combining a general introduction and a textbook, this book serves both intermediate and more experienced model users, both researchers and practitioners, as a comprehensive guide to modelling and simulation studies. The book can be used as a supplemental material at graduate and post-graduate levels of wastewater engineering/modelling courses.



Wastewater,
Reuse & Sludge

Co-treatment of Septage and Faecal Sludge in Sewage Treatment Facilities

Author: Dorai Narayana

ISBN: 9781789061260

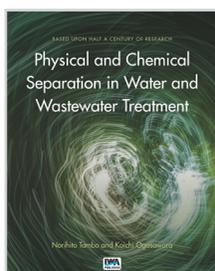
80 Pages · April 2020

Open Access eBook

Print Price: £40.00/ \$60.00/ €50.00

Over the past few years, on-site sanitation has been widely promoted as a solution which can be quickly implemented to address sanitation issues, and it is gaining traction. As such, treatment of the contents emptied from on-site containments has become a pressing issue. While dedicated treatment facilities for this purpose have been advocated, co-treating these wastes in sewage treatment facilities is a promising option, which many countries have implemented or are exploring. This option maximises the utilisation of city infrastructure. In cases where the existing sewage treatment facilities are underutilised, co-treatment presents a ready solution for managing faecal sludge and septage.

This guide book explores some of the basic principles behind sewage treatment, and how it may be impacted by co-treatment of wastes from on-site containments, to try to throw some light on how co-treatment could be considered, in an incremental manner, recognising risks and mitigating them.



Wastewater,
Reuse & Sludge

Physical and Chemical Separation in Water and Wastewater Treatment

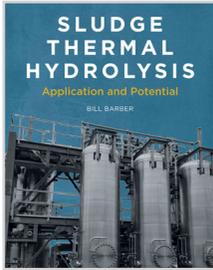
Authors: Norihito Tambo and Koichi Ogasawara

ISBN: 9781789061291

750 Pages · May 2020

Standard Price: £165.00/ \$248.00/ €206.00

Based upon half a century of research by the authors, Physical and Chemical Separation in Water and Wastewater Treatment addresses the whole water cycle spectrum, from global hydrological cycle, urban-regional metabolic cycle to individual living and production cycle, with respect to quality control technology based on fundamental science and theories. For every treatment process, basic scientific and environmental physical and chemical natures are explained with respect to those of water and its impurities. Health danger and risks for human beings are also covered. This comprehensive reference book is intended for undergraduate and graduate students, and also serves as a guide book for practical engineers and industry and university researchers.



Wastewater,
Reuse & Sludge

Sludge Thermal Hydrolysis: Application and Potential

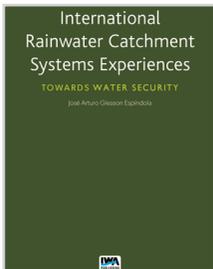
Author: Bill Barber

ISBN: 9781789060270

160 Pages · May 2020

Standard Price: £70.00/ \$105.00/ €88.00

Harvesting rain and using it for drinking and domestic use will help to give scattered rural households and under-served city dwellers access to water. The world cannot ignore using rain - as the source of all water. This book presents stories and experiences from some 15 countries from all over the globe, developed and less developed. There are many more experiences that can be highlighted, but those included are thought to give the reader a good overview of what can be done when water supply engineering investment has not yet reached the unserved. Rainwater harvesting has an important role to play as a safe water supply when other sources are not safe or not available. A rainwater system brings along storage. It may be perceived as a little expensive but will normally be cheaper than a house connection from a centrally treated water supply system. Moreover, the storage will be invaluable in an emergency when tankered water can be stored. Also, in times of drought households with rainwater storage will still have a supply of water.



Water Supply
& Treatment

Developing Countries

Industry & Water

International Rainwater Catchment Systems Experiences: Towards Water Security

Editors: José Arturo Gleason Espindola, César Augusto Casiano Flores, Raul Pacheco-Vega and Margarita Rosa Pacheco Montes

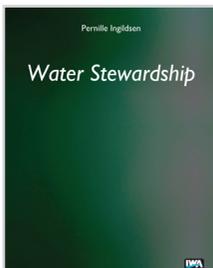
ISBN: 9781789060577

180 Pages · May 2020

Open Access eBook

Print Price: £70.00/ \$105.00/ €88.00

Harvesting rain and using it for drinking and domestic use will help to give scattered rural households and under-served city dwellers access to water. The world cannot ignore using rain - as the source of all water. This book presents stories and experiences from some 15 countries from all over the globe, developed and less developed. There are many more experiences that can be highlighted, but those included are thought to give the reader a good overview of what can be done when water supply engineering investment has not yet reached the unserved. Rainwater harvesting has an important role to play as a safe water supply when other sources are not safe or not available. A rainwater system brings along storage. It may be perceived as a little expensive but will normally be cheaper than a house connection from a centrally treated water supply system. Moreover, the storage will be invaluable in an emergency when tankered water can be stored. Also, in times of drought households with rainwater storage will still have a supply of water.



Policy & Governance

Utility / Network
Management

Water Stewardship

Editor: Pernille Ingldsen

ISBN: 9781789060324

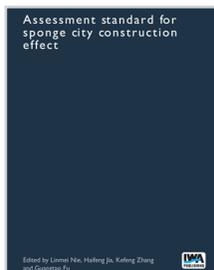
200 Pages · June 2020

Open Access eBook

Print Price: £60.00/ \$90.00/ €75.00

This book asks the timely question of 'how do we become true water stewards?' The transformation to a new sustainable practice will be made through a new connection with our heart, a more holistic type of analysis (brains) and the right actions based on personal integrity (hand). We need to understand and work according to the big picture and the very long-term perspective. Being a water steward requires deep reflection of how water should be treated and our relationship with water. Water utility professionals have the knowledge and have been trusted with the role of managing human water consumption. This is a great responsibility and requires deep reflection of how this should be done. The book will present ideas and concepts for the new role as well as questions for personal reflection.





Urban Water

Assessment standard for sponge city construction effect

Editors: Linmei Nie, Haifeng Jia, Kefeng Zhang and Guangtao Fu

ISBN: 9781789060546

40 Pages · June 2020

Open Access eBook

Print Price: £25.00/ \$38.00/ €31.00

In 2014, China initiated its national action plan for sponge city construction aiming to tackle urban water and environmental challenges. Since then, numerous projects have been implemented across 30 pilot cities and beyond in China through two development stages. The sponge city development aims to control urban rainfall runoff effectively, to minimize the impacts of urban development and construction activities on the natural hydrological characteristics and water ecological environment, to enable the city's resilience like a "sponge" to adapt to the environmental changes and natural disasters. The publication of the English version of the Chinese assessment standard aims to provide non-Chinese readers an insight into what objectives are to be achieved through sponge city development and how sponge city projects are evaluated in China.

Wastewater,
Reuse & Sludge

Methods for Faecal Sludge Analysis

Editors: Konstantina Velkushanova, Linda Strande, Mariska Ronteltap, Thammarat Kootatep, Damir Brdjanovic and Chris Buckley

ISBN: 9781780409115

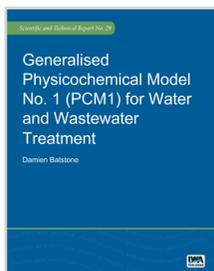
350 Pages · July 2020

Open Access eBook

Print Price: £105.00/ \$158.00/ €131.00

The importance and need for faecal sludge management has been recognised worldwide. One major gap in developing appropriate and adequate faecal sludge treatment and monitoring techniques is the ability to understand faecal sludge characteristics, its quantification and correlation to source populations. Faecal sludge characteristics are highly variable, but as standard methods for sampling and analysis do not exist, results are not comparable and hence the actual variability is not yet fully understood.

This book aims to address these challenges and provide a basis towards standardized methods for characterisation and quantification of faecal sludge from onsite sanitation technologies, including sampling techniques and health and safety procedures for faecal sludge handling. It also aims at improved communication between sanitation practitioners, comparative faecal sludge database and improved confidence in the methods and obtained results. The book will be beneficial for researchers, laboratory technicians, academics, students and sanitation practitioners.

Wastewater,
Reuse & SludgeWater Supply
& Treatment

Generalised Physicochemical Model No. 1 (PCM1) for Water and Wastewater Treatment

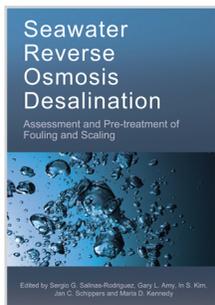
Edited by: Damien Batstone

ISBN: 9781780409825

120 Pages · July 2020

Standard Price: £70.00/ \$105.00/ €88.00

This book describes theory and approach for a comprehensive and applied physicochemical model for wastewater treatment. These are reactions, which occur without a biological mediator, and are critical to both the biology of wastewater treatment, and stand-alone chemical treatment units. The book includes description of acid-base theory, solution ion pairing and non-ideality, participation with other phases, and chemical oxidation/reduction. Full implementation details are provided, including in a plant wide modelling context, and with respect to required extensions to biological models to describe more complex aspects of the iron-sulfur-phosphorous system, which requires all components of the model to be properly described.



Seawater Reverse Osmosis Desalination: Assessment & Pre-treatment of Fouling and Scaling

Edited by: Sergio G. Salinas-Rodriguez, Gary L. Amy, I. S. Kim, J. C. Schippers and Maria D. Kennedy

ISBN: 9781780409856

320 Pages · August 2020

Open Access eBook

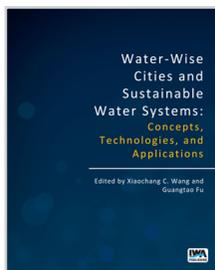
Print Price: £95.00/ \$143.00/ €119.00

This textbook covers the fundamentals of fouling and scaling in reverse osmosis systems. It includes theory and practice of pre-treatment, fouling and scaling in reverse osmosis applied for drinking and industrial water production. The impact of the water source will be discussed in depth. The book presents the knowledge and experience gained at IHE Delft over the last 25 years during the implementation of the master programme in Water Supply Engineering and during the implementation of state-of-the-art research in understanding and solving operational problems in full-scale desalination plants. It presents the expert knowledge of IHE Delft in the areas of pre-treatment for reverse osmosis systems, assessment of water quality with respect to fouling.



**Water Supply
& Treatment**

**Water Resources /
Environment**



Water-Wise Cities and Sustainable Water Systems: Concepts, Technologies, and Applications

Edited by: Xiaochang C. Wang and Guangtao Fu

ISBN: 9781789060751

400 Pages · August 2020

Open Access eBook

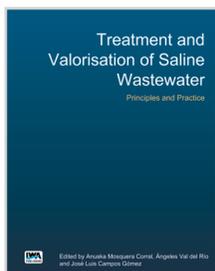
Print Price: £115.00/ \$173.00/ €144

Building water-wise cities is a hot topic nowadays in both developed and developing countries. This is due to the limitation of the available water resources to meet the needs of fast urbanization and for urban liveability. This will be the first book to provide comprehensive insights into theoretical, systematic, and engineering aspects of water-wise cities with a broad coverage of global issues. The proposed book aims to (1) provide a theoretical framework of water-wise cities and the associated smart water systems including the key concepts and principles, (2) provide a brand-new thinking on the design and management of sustainable urban water systems of various scales toward paradigm shifting under the resource and environmental constraints, and (3) provide a technological perspective with successful examples of technology selection, integration, and optimization on the “fit-for-purpose” basis.



Urban Water

**Utility / Network
Management**



Treatment and Valorisation of Saline Wastewater: Principles and Practice

Edited by: Anuska Mosquera Corral, Ángeles Val del Río and José Luis Campos Gómez

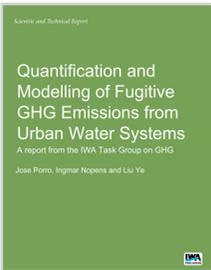
ISBN: 9781789060638

150 Pages · September 2020

Standard Price: £75.00/ \$113.00/ €94.00

The treatment and valorisation of saline wastewater, from urban or industrial origin, is a complex issue. Nowadays, salinity constitutes a global issue in the wastewater management, as it is present in a wide range of polluted effluents. The book will deal with those processes and technological alternatives that allow for the obtainment of effluents suitable for discharge or reuse purposes, and for the recovery of energy and other by-products. Among the different wastewater sources, industrial sectors like fish canneries, oil refineries, pharmaceutical production, food processing will be considered. In addition, the performance of wastewater treatment plants (WWTP) located in coastal areas, where marine intrusions into the sewage systems are common or which receive domestic water from households where seawater is used for flushing the toilets, will be evaluated.

**Wastewater,
Reuse & Sludge**



Wastewater,
Reuse & Sludge

Urban Water

Quantification and Modelling of Fugitive GHG Emissions from Urban Water Systems: A report from the IWA Task Group on GHG – Scientific and Technical Report Series

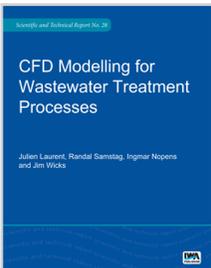
Editors: Jose Porro, Ingmar Nopens and Liu Ye

ISBN: 9781789060454

200 Pages • September 2020

Standard Price: £89.00/ \$134.00/ €111.00

The pathways and factors leading to biological nitrous oxide and methane formation and emissions from wastewater are highly complex and site-specific. Good emission factors for estimating the Scope 1 emissions are lacking, water utilities have little experience in directly measuring these emissions, and the mathematical modelling of these emissions is challenging. Therefore, this book aims to help the water sector address the Scope 1 emissions by breaking down their pathways and influencing factors, and providing guidance on both the use of emission factors, and performing direct measurements of nitrous oxide and methane emissions from sewers and wastewater treatment plants. The book also dives into the mathematical modelling for predicting these emissions and provides guidance on the use of different mathematical models based upon your conditions, as well as an introduction to alternative modelling methods, including metabolic, data-driven, and AI methods. Finally, the book includes guidance on using the modelling tools for assessing different operating strategies and identifying promising mitigation actions. A must have book for anyone needing to understand, account for, and reduce water utility Scope 1 emissions.



Wastewater,
Reuse & Sludge

CFD Modelling for Wastewater Treatment Processes – Scientific and Technical Report Series

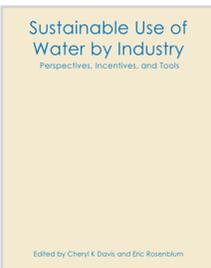
Editors: Julien Laurent, Randal Samstag, Ingmar Nopens and Jim Wicks

ISBN: 9781780409023

150 Pages • September 2020

Standard Price: £80.00/ \$120.00/ €100.00

Computational fluid dynamics (CFD) is a rapidly emerging field in wastewater treatment, with application to almost all unit processes. To date, it has been primarily used for evaluation of hydraulic problems at Water Resources Recovery Facilities (WRRFs). A potentially more powerful use, however, is to simulate integrated physical, chemical and/or biological processes involved in WRRF unit processes on a spatial scale and to use the gathered knowledge to accelerate improvement in plant models for everyday use, that is, design and optimized operation. In this Scientific And Technical Report (STR), the fundamentals of CFD are presented and the application of CFD for more efficient and effective design and operation of WRRFs is demonstrated. The STR's focus is on articulating the state of practice and research and development needs. Recent developments are also emphasized, including new and emerging software and computations, model calibration and verification, sources of error, etc.



Industry & Water

Sustainable Use of Water by Industry: Perspectives, Incentives, and Tools

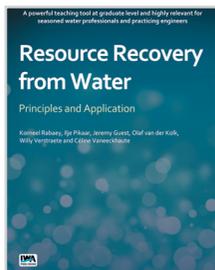
Editors: Cheryl Davis and Eric Rosenblum

ISBN: 9781789060669

300 Pages • September 2020

Standard Price: £85.00/ \$128.00/ €106.00

The book is intended to provide a more complete understanding of the social and environmental eco-system that affects and is affected by industrial water use, encourage collaboration among the stakeholders in this ecosystem to promote more sustainable use, and identify concrete actions (e.g., increased incentives for sustainable use and penalties for unsustainable use) that can be collaboratively pursued for the benefit of long-term economic well-being, communities, and the environment. The book will feature the voices of individuals in different industrial sectors, as well as those affecting and affected by industrial water use. In addition to relating the practical experiences of the various authors and their 'lessons learned', the book will include a discussion of currently available water management and planning tools in order to encourage additional research and greater collaboration between potential partners. Since water use by industry includes the water used to produce raw materials (e.g. cotton in the case of textiles) and use of the product by the consumer, it will also include a discussion of how relationships between companies, their suppliers and their customers can be designed to improve industrial water use.



Wastewater, Reuse & Sludge

Water Supply & Treatment

Resource Recovery from Water: Principles and Application

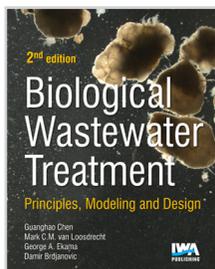
Editors: Korneel Rabaey, Ilje Pikaar, Jeremy Guest, Olaf van der Kolk, Willy Verstraete and Céline Vaneckhaute

ISBN: 9781789060317

400 Pages · September 2020

Standard Price: £99.00/ \$149.00/ €124.00

A key challenge for the future of urban water management is the need to re-envision the role of water infrastructure, still holding paramount the safeguard of human and environmental health while also becoming a more proactive force for sustainable development through the recovery of resources embedded in urban water. This book aims (i) to explain the basic principles governing resource recovery from water; (ii) to provide comprehensive overview and critical assessment of the established and emerging technologies for resource recovery from water; and (iii) to put resource recovery from water in a legal, economic (including the economy of scale of recovered products), social (consumer's point of view), and environmental sustainability framework. This book serves as a powerful teaching tool at the graduate entry master level with an aim to developing the next generation of engineers and experts and is also highly relevant for seasoned water professionals and practicing engineers.



Wastewater, Reuse & Sludge

Biological Wastewater Treatment – 2nd Edition

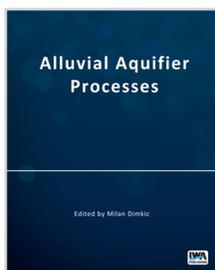
Editors: G. H. Chen, Mark C. M. van Loosdrecht, G. A. Ekama and Damir Brdjanovic

ISBN: 9781789060355

700 Pages · September 2020

Standard Price: £125.00/ \$188.00/ €156.00

Since publication of the first edition in 2008, the knowledge and understanding of wastewater treatment have continued to advance extensively embracing chemistry, microbiology, physical and bioprocess engineering, and mathematics. For 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 is not readily available to advanced level tertiary education courses in wastewater treatment. The second edition of Biological Wastewater Treatment addresses this challenge. It assembles and integrates the postgraduate course material of a dozen or so professors from research groups around the world that have made significant contributions to the advances in wastewater treatment.



Water Resources / Environment

Alluvial Aquifer Processes

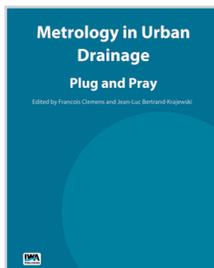
Editor: Milan Dimkic

ISBN: 9781789060898

625 Pages · September 2020

Standard Price: £150.00/ \$225.00/ €188.00

With a focus on alluvial aquifers and groundwater resources, this book provides insight into alluvial aquifer formation, behavior, processes, abstraction conditions, and conservation. The intent is to provide comprehensive insight into the processes that take place in these important resources, as well as into the interactions of the processes. All chapters will include an overview of related state-of-the-art science and engineering practice. Some of the chapters will contain novel contributions. The book aspires to present, in a novel and unique way, the subject matter of iron incrustation of water wells under specific conditions, the genesis of alluviums as impacted by Pleistocene climate changes and glaciations, and the exploitation and conservation of groundwater resources in alluvial environments. All sub-topics will be addressed in a fresh, useful, integrative and interesting manner for the reader/user.



Urban Water

Metrology in Urban Drainage: Plug and Pray

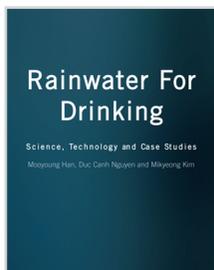
Edited by: Francois Clemens and Jean-Luc Bertrand-Krajewski

ISBN: 9781789060102

350 Pages · September 2020

Standard Price: £115.00/ \$173.00/ €144.00

This book presents the advancements made in applied metrology in the field of Urban Drainage and Storm water Management over the past two decades in scientific research as well as in practical applications. Given the broadness of this subject, the focus is on water quantity and a sound metrological basis. The book offers common ground for academics and practitioners when setting up monitoring projects in urban drainage and storm water management. This will enable an easier exchange of results so as to allow for a faster scientific progress in the field. A second, but equally important goal, is to allow practitioners access to scientific developments and gained experience when it comes to monitoring urban drainage and storm water systems. In-depth description of international case studies covering all aspects discussed in the book are presented, along with self-training exercises and codes available for readers on a companion website.

Water Supply
& Treatment

Developing Countries

Rainwater for Drinking: Science, Technology and Case Studies

Authors: Mooyoung Han, DucCanh Nguyen and Mikyeong Kim

ISBN: 9781780409887

150 Pages · September 2020

Standard Price: £55.00/ \$83.00/ €69.00

Both quantitative and qualitative problems in drinking water supply occur due to higher water demand, water pollution and emerging pollutants in developing countries as well as in developed countries. Rainwater has seldom been considered as a drinking water source, although it has been practiced since the beginning of human history. There are scientific, economic and social barriers to promoting rainwater harvesting for drinking. Such barriers can, however, be overcome by science and technology supported by case studies. This book will show how drinking water problems can be readily solved by rainwater as a decentralized water supply system in combination with a centralized system.

Wastewater,
Reuse & SludgeWater Resources /
Environment

Environmental Technologies to Treat Sulphur Pollution: Principles and Engineering, 2nd Edition – Integrated Environmental Technology Series

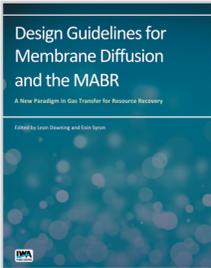
Editor: Piet Lens

ISBN: 9781789060959

350 Pages · October 2020

Standard Price: £125.00/ \$188.00/ €156.00

This new edition overviews in detail the state-of-the-art of environmental technologies to treat sulfur pollution of wastewater, off gases, solid waste, soils and sediments. Special attention is given to novel bioremediation techniques that have been developed over the last two decades. The book describes a variety of different types of environmental pollution caused by the discharge of sulfur compounds as well as a variety of technologies to prevent this pollution. Well-known environmental problems, such as e.g. the formation of acid rain due to the discharge of SO₂ with off gases or the discharge of heavy metals and sulfuric acid in acid mine drainage, can be efficiently tackled by new environmental biotechnologies that were recently developed. It is expected that these technologies will find wide spread application in the coming years.



Design Guidelines for Membrane Diffusion and the MABR

A New Paradigm in Gas Transfer for Resource Recovery

Edited by Leon Downing and Eoin Syron

IMA

**Wastewater,
Reuse & Sludge**

Design Guidelines for Membrane Diffusion and the MABR: A New Paradigm in Gas Transfer for Resource Recovery

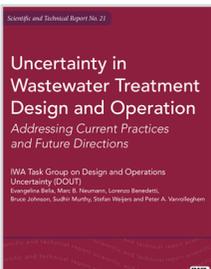
Editors: Leon Downing and Eoin Syron

ISBN: 9781789060133

250 Pages • October 2020

Standard Price: €95.00/ \$143.00/ €119.00

Membrane Aerated Biofilms (MABRs) utilize membranes or permeable substrates on which to grow biofilms, and transfer oxygen to the base of the biofilm. This results in the creation of a biofilm with substrates diffusing from opposite sides, which is termed a counter-diffusional biofilm. This counter diffusion allows for unique concentration profiles in the biofilm and the creation and modification of zones (layers) in the biofilm which are complementary. The subject of this book will be the design and operation of counter diffusional biofilm reactors, with particular focus on the Membrane Aerated Biofilm Reactor (MABR). Past research, current best practices for design, guidelines for operation, modelling best practices, and future areas of research need will all be discussed. The design and operating guidelines are summarized in easy to reference, condensed chapters for efficient use will be included in the book.



Scientific and Technical Report No. 21

Uncertainty in Wastewater Treatment Design and Operation

Addressing Current Practices and Future Directions

IMA Task Group on Design and Operations Uncertainty (DOU)

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

IMA

**Utility / Network
Management**

**Wastewater,
Reuse & Sludge**

Uncertainty in Wastewater Treatment Design and Operation – Scientific and Technical Report Series

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

ISBN: 9781780401027

300 Pages • November 2020

Standard Price: €99.00/ \$149.00/ €124.00

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



Environmental Technologies to Treat Selenium Pollution

Principles and Engineering

Editor: Piet Lens

IMA

**Wastewater,
Reuse & Sludge**

**Water Supply
& Treatment**

Environmental Technologies to Treat Selenium Pollution: Principles and Engineering – Integrated Environmental Technology Series

Edited by: Piet Lens

ISBN: 9781789061048

300 Pages • December 2020

Standard Price: €115.00/ \$179.00/ €144.00

The book will cover a wide range of subjects related to selenium, including the selenium biogeochemical cycle, selenium pollution and environmental technologies, wastewater treatment, treatment of selenium polluted soils and resource recovery as selenium based nanoparticles. Part 1 covers the selenium cycle. Selenium contamination and its consequences are presented in Part 2 on the remediation of selenium contamination. Recent advances of different technologies used for treating selenium waste (soil, water), ranging from the physicochemical approaches to the biological approaches are in the third part. In its final part, on 'selenium-based nanoparticles synthesis, recovery and use', the book will focus on directions for the recovery of selenium nanoparticles, i.e. to combine bioremediation of selenium-containing waste to recovery of selenium as valuable selenium based nanoparticles. This particular section of the book will provide valuable insights into the current state of the microbial synthesis of selenium-based nanoparticles, indicating the current challenges and future perspectives of these technologies.

The Secret Handbook of the Blue Circle

Written by

Antonis Papatheodoulou

Concept Development & Scientific Editing

Despo Fatta-Kassinou

An educational adventure, which invites children to become new members of the
'Eternal Blue Circle Society'

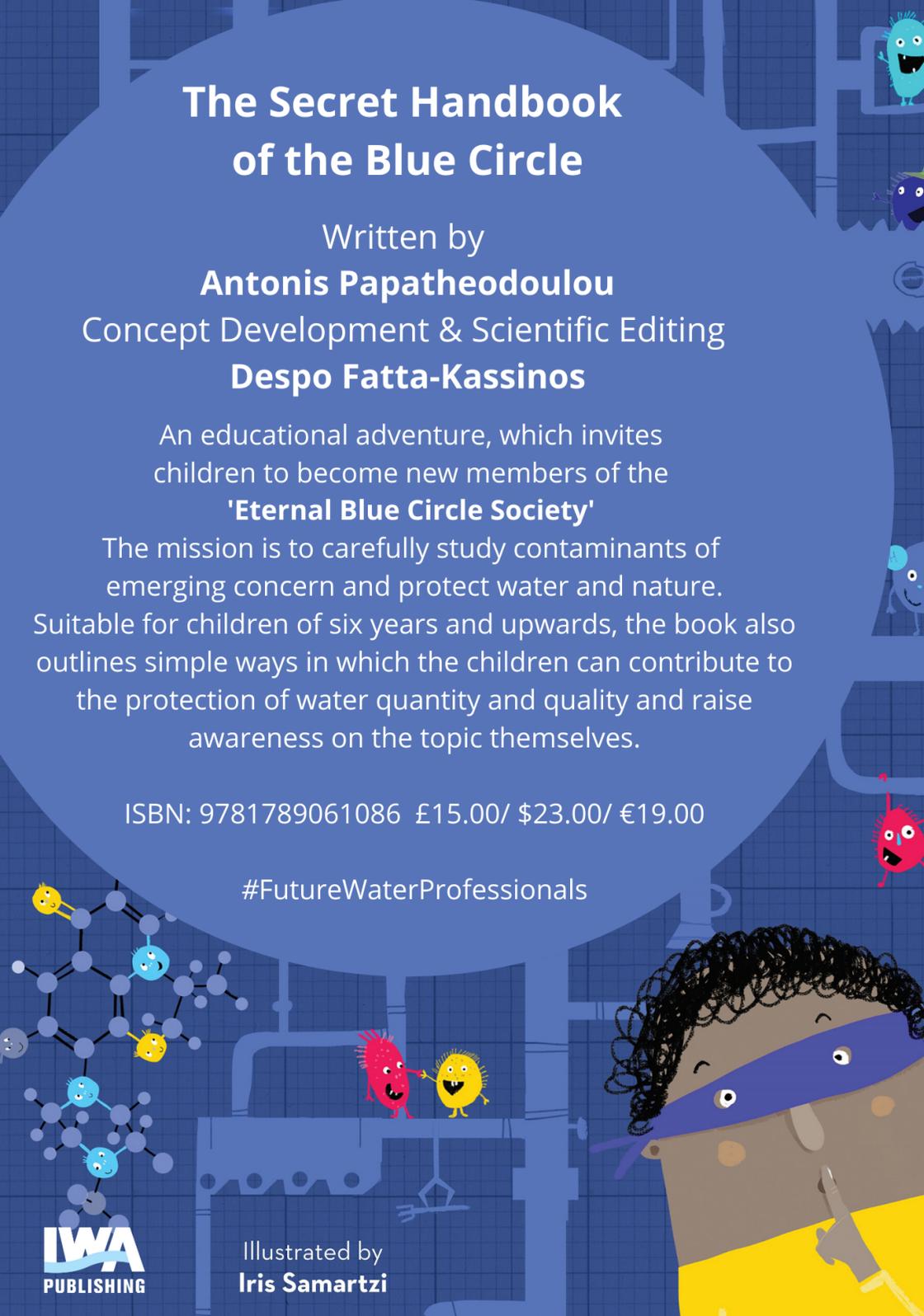
The mission is to carefully study contaminants of emerging concern and protect water and nature. Suitable for children of six years and upwards, the book also outlines simple ways in which the children can contribute to the protection of water quantity and quality and raise awareness on the topic themselves.

ISBN: 9781789061086 £15.00/ \$23.00/ €19.00

#FutureWaterProfessionals

IWA
PUBLISHING

Illustrated by
Iris Samartzi





Wastewater,
Reuse & Sludge

Biological Wastewater Treatment: Principles, Modelling and Design

Editors: Mogens Henze, Mark C.M van Loosdrecht, G.A Ekama & Damir Brdjanovic

ISBN: 9781843391883

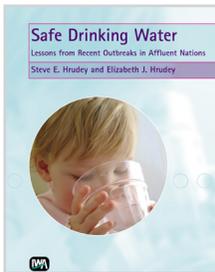
528 pages · September 2008

Standard Price: £123.00/ \$185.00/ €154.00

The book assembles and integrates the postgraduate course material of a dozen or so professors from research groups around the world that have made significant contributions to the advances in wastewater treatment. The book forms part of an internet-based curriculum in biological wastewater treatment, which also includes:

- Summarized lecture handouts of the topics covered in book
- filmed lectures by the author professors
- tutorial exercises for students self-learning

Upon completion of this curriculum the modern approach of modelling and simulation to wastewater treatment plant design and operation, be it activated sludge, biological nitrogen and phosphorus removal, secondary settling tanks or biofilm systems, can be embraced with deeper insight, advanced knowledge and greater confidence. 2nd Edition coming October 2020, see page xx for details



Health Issues

Policy & Governance

Utility / Network
Management

Water Supply
& Treatment

Safe Drinking Water: Lessons from Recent Outbreaks in Affluent Nations

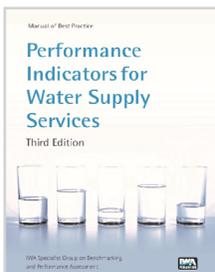
Authors: Steve E. Hrudehy and Elizabeth J. Hrudehy

ISBN: 9781843390428

514 pages

May 2004 • Standard price: £142.00/ \$213.00/ €178.00

This book aims to raise understanding and awareness of those factors that have most commonly contributed to or caused drinking-water-transmitted disease outbreaks - essentially a case-history analysis within the multi-barrier framework. It contains detailed analysis of the failures underlying drinking-water-transmitted disease epidemics that have been documented in the open literature, by public inquiry, in investigation reports, in surveillance databases and other reliable information sources. The book adopts a theme of 'converting hindsight into foresight', to inform drinking-water and health professionals including operators, managers, engineers, chemists and microbiologists, regulators, as well as undergraduates and graduates at specialty level. Recurring themes and patterns are revealed and the critical human dimensions are highlighted suggesting insights for more effective and more individualized preventive strategies, personnel training, management, and regulatory control.



Policy & Governance

Utility / Network
Management

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

ISBN: 9781780406329

404 pages · September 2016

Standard Price: £125.00/ \$188.00/ €156.00

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.



Membrane Bioreactors for Wastewater Treatment

Authors: T. Stephenson, K. Brindle, S. Judd and B. Jefferson

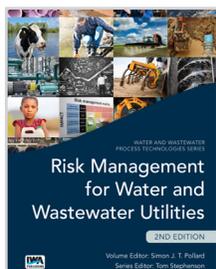
ISBN: 9781900222075

150 pages · May 2000

Standard price: £90.00/ \$134.00/ €113.00

The book covers the subject of membrane bioreactors (MBR) for wastewater treatment, dealing with municipal as well as industrial wastewaters. The book details the 3 types of MBR available and discusses the science behind the technology, their design features, operation, applications, advantages, limitations, performance, current research activities and cost. As the demand for wastewater treatment, recycling and re-use technologies increases, it is envisaged that the membrane separation bioreactor will corner the market.

**Wastewater,
Reuse & Sludge**



Risk Management for Water and Wastewater Utilities: Second Edition

Author: Simon Pollard

ISBN: 9781780407470

180 pages · May 2016

Standard price: £89.00/ \$134.00/ €111.00

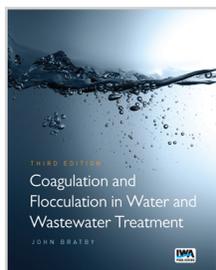
Water risks and security are a major global hazard in the 21st century and it is essential that water professionals have a solid grounding in the principles of preventative risk management. The second edition of this best-selling textbook, Risk Management for Water and Wastewater Utilities, extends beyond first principles and examines the practicalities of resilience and vulnerability assessment, strategic risk appraisal and the interconnectedness of water utility risks in a networked infrastructure. It provides an 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.

Health Issues

Industry & Water

Policy & Governance

**Utility / Network
Management**



Coagulation and Flocculation in Water and Wastewater Treatment - Third Edition

Author: John Bratby

ISBN: 9781780407494

538 pages · April 2016

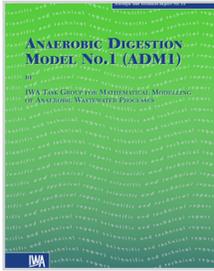
Standard price: £105.00/ \$158.00/ €131.00

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. Numerous examples are included as appropriate. Treatment and disposal of sludges resulting from coagulation-flocculation related operations is dealt with in an Appendix. This important topic has been separated from the main text to avoid disturbing the continuum of the presentation. Coagulation and Flocculation in Water and Wastewater Treatment is a readable and useful resource for the water scientist and engineer.

Developing Countries

**Wastewater,
Reuse & Sludge**

**Water Supply
& Treatment**



Wastewater,
Reuse & Sludge

Anaerobic Digestion Model No. 1 (ADMI) – Scientific and Technical Report Series

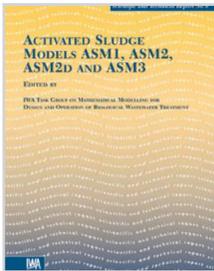
Author: IWA Task Group for Mathematical Modelling of Anaerobic Digestion Processes

ISBN: 9781900222785

80 pages · January 2002

Standard price: £86.00/ \$129.00/ €119.00

The IWA Task Group for Mathematical Modelling of Anaerobic Digestion Processes was created with the aim to produce a generic model and common platform for dynamic simulations of a variety of anaerobic processes. This book presents the outcome of this undertaking and is the result of four years collaborative work by a number of international experts from various fields of anaerobic process technology. The purpose of this approach is to provide a unified basis for anaerobic digestion modelling. It is hoped this will promote increased application of modelling and simulation as a tool for research, design, operation and optimization of anaerobic processes worldwide. This model was developed on the basis of the extensive but often disparate work in modelling and simulation of anaerobic digestion systems over the last twenty years.



Wastewater,
Reuse & Sludge

Activated Sludge Models: ASM1, ASM2, ASM2d and ASM3 – Scientific and Technical Report Series

Author: The IWA Task Group on Mathematical Modelling for Design and Operation of Biological Wastewater Treatment

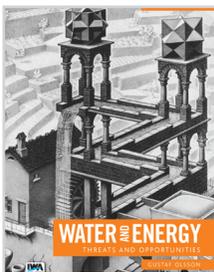
ISBN: 9781900222242

130 pages · May 2000

Standard Price: £95.00/ \$155.00/ €129.00

This book has been produced to give a total overview of the Activated Sludge Model (ASM) family at the start of 2000 and to give the reader easy access to the different models in their original versions. It thus presents ASM1, ASM2, ASM2d and ASM3 together for the first time.

Modelling of activated sludge processes has become a common part of the design and operation of wastewater treatment plants. Today models are being used in design, control, teaching and research.



Industry & Water

Policy & Governance

Urban Water

Water Resources /
Environment

Water and Energy: Threats and Opportunities – Second Edition

Author: Gustaf Olsson

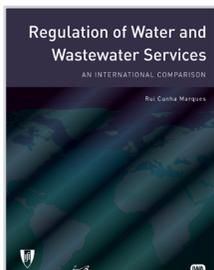
ISBN: 9781780406930

496 pages · June 2015

Standard price: £103.00/ \$155.00/ €129.00

Rapid and important developments in the area of energy-water nexus in recent years have been significant. This timely new edition continues to highlight the inextricable link between water and energy, providing an up-to-date overview with detailed summaries of the technical literature.

This book creates awareness of the important couplings between water and energy. It shows how energy is used in various water cycle operations and demonstrates how water is used and misused in all kinds of energy production. Population increase, climate change and increasing competition between food and fuel production create enormous pressures on both water and energy availability. Since there is no replacement for water, water security looks more crucial than energy security. This is true not only in developing countries but also in the most advanced countries. For example, the western parts of the USA suffer from water scarcity that provides a real security threat.



Policy & Governance

Regulation of Water and Wastewater Services – An International Comparison

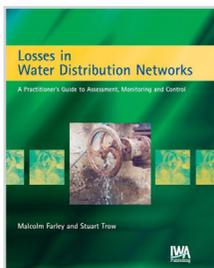
Author: Rui Cunha Marques

ISBN: 9781843393412

480 Pages · June 2010

Standard price: £141.00/ \$212.00/ €176.00

This book, published in collaboration with ERSAR, presents a unique account of governance and regulatory methods used by different countries, states and municipalities that will help regulators and governments all over the world to improve their regulatory approaches. It is the first book to compile such an amount of data about regulatory processes of a wide number of countries from the five continents. By showing 18 country case studies, the book offers an interesting perspective as the regulatory models adopted vary immensely depending on geographical location, nature and strength of institutions and governments, political ideology, features and level of development of the countries. In addition, it provides examples of best practices that may be important for policy-makers to enhance the regulatory processes adopted in each country. It looks closely at rules imposed by state and local governments concerning regulatory issues and how they are being applied.



Utility / Network Management

Losses in Water Distribution Networks: A Practitioner's Guide to Assessment, Monitoring and Control

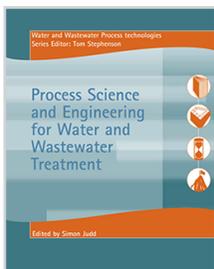
Author: M Farley and S Trow

ISBN: 9781900222112

296 pages · March 2003

Standard Price: £132.00/ \$198.00/ €165.00

This is a best practice manual for addressing water losses in water distribution networks worldwide. Systems and methodologies are presented for improving water loss and leakage management in a range of networks, from systems with a well-developed infrastructure to those in developing countries where the network may need to be upgraded. The key feature of the manual is a diagnostic approach to develop a water loss strategy - using the appropriate tools to find the right solutions - which can be applied to any network. The methods of assessing the scale and volume of water loss are outlined, together with the procedures for setting up leakage monitoring and detection systems. As well as real losses (leakage) procedures for addressing apparent losses, by introducing regulatory and customer metering policies are explained. Suggestions are made for demand management and water conservation programmes, to complement the water loss strategy.



Water Supply & Treatment

Water Resources / Environment

Process Science and Engineering for Water and Wastewater Treatment

Editors: S Judd and T Stephenson

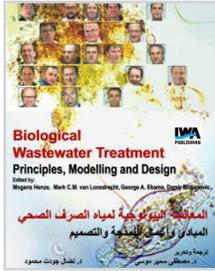
ISBN: 9781900222754

284 Pages · March 2002

Standard Price: £136.00/ \$204.00/ €170.00

Process engineering is considered fundamental to successful water and wastewater treatment and Process Science and Engineering for Water and Wastewater Treatment provides the fundamental chemistry, biology and engineering knowledge needed to learn and understand the underlying scientific principles directly relevant to water and wastewater treatment processes.

Units in the text covering chemistry and biology include fundamentals of water chemistry; chemical kinetics and equilibria; colloid and surface chemistry; fundamentals of microbiology; fundamentals biochemistry and microbial kinetics. The concept of Process Engineering is introduced through units on: mass and heat balances; mass and heat transfer; reactor design theory; engineering hydraulics and particle settlement.



Wastewater,
Reuse & Sludge

المعالجة البيولوجية لمياه الصرف الصحي

(Biological Wastewater Treatment)

Editors: Mogens Henze, Mark C.M. van Loosdrecht, G.A. Ekama, Damir Brdjanovic, Moustafa Moussa and Nidal Mahmoud.

ISBN: 9781780408613

615 Pages · February 2019

Open Access eBook only

This is the Arabic translation of Biological Wastewater Treatment: principles, modelling and design.

This title is also available in Spanish, ISBN: 9781780409139



Manual Sobre los Derechos
Humanos al Agua Potable y
Saneamiento para Profesionales

Author principal: Robert Bos
Authors colaboradores: Daniel Ochoa, Carolina Herrera,
Mark Henze, Gerard Pijpers, Virginia Ruiz y Michael Reuser

Manual Sobre los Derechos Humanos al Agua Potable y Saneamiento para Profesionales

Author: Robert Bos

ISBN: 9781789060515

122 Pages · April 2019

Open Access eBook

Print Price: £75.00/ \$113.00/ €94.00

This is the Spanish Translation of Manual on the Human Rights to Safe Drinking Water and Sanitation for Practitioners.

This title is also available in French, ISBN: 9781789060058 and Portuguese, ISBN: 9781780408965



Developing Countries

Policy & Governance

Utility / Network
Management

Health Issues



Hoja de Ruta
Hacia una Empresa de
Agua y Saneamiento
Urbano con Bajas
Emisiones de Carbono

Hoja de Ruta Hacia una Empresa de Agua y Saneamiento Urbano con Bajas Emisiones de Carbono

Editors: Simone Ballard, Jose Porro and Corinne Trommsdorff

ISBN: 9781789060416

52 Pages · February 2019

Open Access eBook

Print Price: £15.00/ \$23.00/ €19.00

This is the Spanish Translation of The Roadmap to a Low-Carbon Urban Water Utility.



Industry & Water

Policy & Governance

Utility / Network
Management

Water Resources /
Environment



Wastewater,
Reuse & Sludge

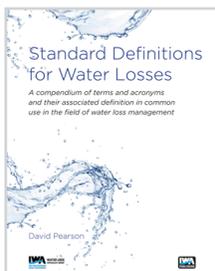
Métodos Experimentales Para el Tratamiento de Aguas Residuales

Editors: Mark C. M. van Loosdrecht, Per Halkjaer Nielsen, Damir Brdjanovic, C. M. Lopez-Vazquez, Cheikh Fall and Carlos Menéndez Gutiérrez

ISBN: 9781780409252
370 Pages · November 2019

Open Access eBook only

This is the Spanish Translation of Experimental Methods in Wastewater Treatment.



Industry & Water

Utility / Network
Management

Water Supply
& Treatment

IWA管网漏损术语的标准定义

Author: David Pearson

ISBN: 9781789061352
80 pages · May 2020

Open Access eBook only

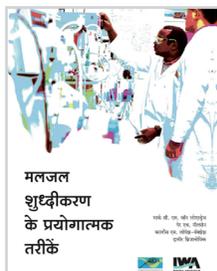
This is the Chinese translation of Standard Definitions for Water Losses.



Indian Language Translations of IWA Publishing Titles

Two of our bestselling titles are now available to purchase in Hindi, Marathi and Tamil. They are available through Unity Knowledge LLP.

Unity Knowledge have made *Experimental Methods in Wastewater Treatment* and *Faecal Sludge Management: Systems Approach for Implementation and Operation* translations available to purchase online.



For more information or to purchase copies please visit:
www.ukgllp.com/books/

Or contact Unity Knowledge LLP - +91 20 25467788 /
info.unityknowledge@gmail.com

Developing Countries

- Sustaining High Performing Public Enterprise: Case Study of National Water and Sewerage Corporation, Uganda**, ISBN: 9781789060249, [Page 22](#)
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- Coagulation and Flocculation in Water and Wastewater Treatment – Third Edition**, ISBN: 9781780407494, [Page 41](#)

Industry & Water

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- Public Involvement in Knowledge Generation: Citizen Science Opportunities in the Dutch Water Sector**, ISBN: 9781789060492, [Page 23](#)
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