

Publications Catalogue 2018/19

Titles in Water, Wastewater and the Environment



Visit us online!

By clicking through to www.iwapublishing.com, you will find a full listing of books, research reports, conference proceedings and journals published by IWA Publishing.

You can:

- Order online with fully secure ordering facilities
- Order print and Ebooks online
- Register for a eTOC pre-publication alerting service to articles published in IWA journals
- Access articles on a pay-per-view basis via [Water Intelligence Online](#). Buy individual Ebooks or the complete collection via [Water Intelligence Online](#)
- Sign up to an [Email Alert](#) service to all our new publications and services
- Submit papers or book proposals



Book Agents

Australia and New Zealand

Science & Technical Information Officer
AWA
PO Box 222
St Leonards
NSW 1590
Australia
Tel: +61 2 9436 0055
Fax: +61 2 9436 0155
Email: info@awa.asn.au
Or
Coinfo
200A Rooks Road
Vermont
Victoria 3133
Australia
Tel: +61 3 9210 7777
Fax: +61 3 9210 7788
Email: books@coinfo.com.au

China, Korea, Vietnam, Thailand, Malaysia, Philippines, Singapore

Tony Poh
Block 52, #12-19, Choa Chu Kang North 6
Yew Mei Green
Singapore 689576
Tel: +65 64680818
Fax: +65 63108258
Mobile: +65 92311738
Email: leongwah@singnet.com.sg

Chinese Taiwan

Ta Tong Books Ltd
11th Floor, Rose Building
162-44 Hsin Yi Road
Section 3
Taipei
Taiwan 106
Tel: +88 622 701 5677
Fax: +88 622 701 8033
Email: tatong@tatong.co.tw

India

Kailash Balani
Aditya Books Pvt. Ltd.
B-116, Sector-67
Dist. Gautam Budh Nagar
NOIDA-201301 (UP)
India
Tel: +91 0120 2484151
Fax: +91 0120 2484150
Email: orders@adityabooks.in
www.adityabooks.in

Japan

iGroup Japan
Gina Jeong
9F, ARTE OTEMACHI
1-5-16, UCHIKANDA
CHIYODA-KU
TOKYO
101-0047
JAPAN
Tel: +81-3-5577-4899
Fax: +81-3-5577-4809
Email: gina@igroupjapan.com

Ebook Agent: Water Intelligence Online (WIO)

Australia, China, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, New Zealand, Philippines, Singapore, Taiwan, Thailand, Vietnam
iGroup (Asia Pacific) Ltd
Unit 3703-5, 37/F,
9 Wing Hong Street
Lai Chi Kok
Kowloon, Hong Kong
Tel: (852) 2572 7228
Fax: (852) 2575 8822
Email: orders@igroupnet.com

Ordering information

UK, Europe and Rest of World

Post: Turpin Distribution Ltd.
Pegasus Drive, Stratton Business Park, Biggleswade
Bedfordshire, SG18 8TQ, United Kingdom

Tel: +44 (0)1767 604951

Fax: +44 (0)1767 601640

E-mail: iwap@turpin-distribution.com

Web: www.iwapublishing.com

Ordering information

North America Orders

Post: IWA Publishing c/o BookMasters, Inc.
30 Amberwood Parkway
Ashland
Ohio, 44805, USA

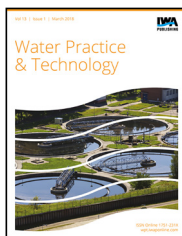
Tel: +1 800 247 6553 or +1 800 266 5564

Tel from Canada: +1 419 281 1802

Fax: +1 419 281 6883 Email: order@bookmasters.com

Journals	4
Health Related Water Issues.....	11
Industry & Water	11
Policy & Governance	12
Urban Water.....	13
Utility Management.....	13
Wastewater, Reuse & Sludge.....	14
Water, Resources & Environment.....	22
Water Supply & Treatment.....	29
New Translations.....	33

If you are a library talk to us for a trial subscription to our journals



Water Practice & Technology

Online journal for water practitioners under the control of the *Water Science & Technology Editorial Board*, including technical and practical reports and management studies. For more information visit our website.



Water Intelligence Online (WIO)

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

H₂Open Journal

Editors-in-Chief:

Ashok Chapagain, University of Free State, South Africa
 Francesco Fatone, Università 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



The *H₂Open Journal* is an open access journal that publishes original, peer-reviewed, internationally relevant articles covering all aspects of 21st century water research: fundamental science, application of science and technology and impact of societal and political and economic factors. It considers research papers, critical reviews and short communications; multi-disciplinary articles are encouraged.

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

If you have queries about the journal, please contact h2open@iwap.co.uk.

Water Quality Research Journal

Official Journal of the Canadian Association on Water Quality

Editors:

R. Droste, University of Ottawa, Canada
 P. Vanrolleghem, Université Laval, Canada
 A. Zamyadi, École Polytechnique, Canada



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

ISSN: 1201-3080; Vol.53, 4 issues, 2018
 Institutional rate (print and online access):
 £601 / US\$929 / €901

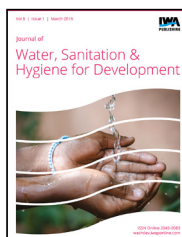
Journal of Water, Sanitation & Hygiene for Development

Editor-in-Chief:

Barbara Evans, University of Leeds, UK

Editors:

Guy Howard, Department for International Development (DFID), UK
 Guy Hutton, UNICEF, USA, India
 Meera Mehta, CEPT University, India
 Darren Saywell, Plan International USA
 Regina Souter, International WaterCentre, Australia
 Marcos von Sperling, Federal University of Minas Gerais, Brazil



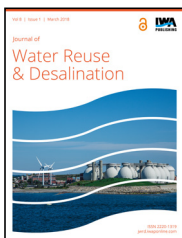
The *Journal of Water, Sanitation & Hygiene for Development* is a peer reviewed journal devoted to the dissemination of high-quality information on the science, policy and practice of drinking-water supply, sanitation and hygiene at local, national and international levels.

ISSN: 2043-9083; Vol.8, 4 issues, 2018
 Institutional rate (print and online access):
 £1,157 / US\$1,911 / €1,450

Journal of Water Reuse & Desalination

Editors:

Blanca Jiménez Cisneros, UNESCO, France
 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



IWA Publishing is pleased to announce that as of 2017 the *Journal of Water Reuse & Desalination* was made fully Open Access.

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

First published in 2011, the *Journal of Water Reuse & Desalination* is an international journal publishing peer-reviewed papers on the science and technology, policy, regulation, social and economic aspects and applications of sustainable sources of water to cope with water scarcity, including new sources of non-conventional water. *Journal of Water Reuse & Desalination* publishes review articles, theoretical and experimental research papers, new findings and issues of unplanned and planned reuse. The journal welcomes contributions from developing and developed countries. The journal is included within Clarivate Analytics', formerly the IP & Science business of Thomson Reuters, products and services, including Science Citation Index/Reports, with an Impact Factor of 0.686.

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

ISSN: 2220-1319; Vol.8, 4 issues, 2018
Institutional rate (print):
£938 / US\$1,484 / €1,175

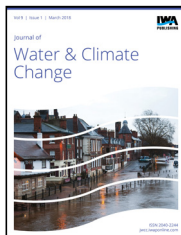
Journal of Water & Climate Change

Editor-in-Chief:

Chris Perera, Victoria University, Australia

Editors:

Sangaralingam Ahilan, University of Exeter, UK
 Andrew Barton, Federation University, Australia
 Fransje L. Hooimeijer, TU Delft, The Netherlands
 Junguo Liu, Beijing Forestry University, China
 Damien Serre, University of Avignon, France
 Venkataramana Sridhar, Virginia Tech, USA



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

ISSN: 2040-2244; Vol.9, 4 issues, 2018
Institutional rate (print and online access):
£1,055 / US\$1,669 / €1,322

Hydrology Research

An International Journal

Published in Partnership with:

The Nordic Association for Hydrology (NHF)

The British Hydrological Society (BHS)

Official Journal of:

The German Hydrological Society (DHG)

The Italian Hydrological Society (IHS)

Editors:

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

Chong-Yu Xu, University of Oslo, Norway

Associate Editors:

Jie Chen, Wuhan University, China

Michał Wojciech Kawecki, UK

Bjørn Kløve, University of Oulu, Finland

Jan Seibert, University of Zurich, Switzerland

Elena Volpi, Università Roma Tre, Italy



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

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

ISSN: 0029-1277; Vol.49, 6 issues, 2018
Institutional rate (print and online access):
£1,664 / US\$2,854 / €2,496

Journal of Water & Health

Editor-in-Chief:

Nicholas J. Ashbolt, University of Alberta, Canada

Editors:

Morteza Abbaszadegan, Arizona State University, USA

Shinya Echigo, National Institute of Public Health, Japan

Maria A. Efstratiou, University of the Aegean, Greece

Panagiotis Karanis, Medical School, University of

Cologne, Germany

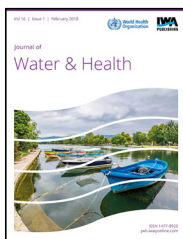
Joonhong Park, Yonsei University, Korea

Susan Petterson, Griffith University School of

Medicine, Australia

Daisuke Sano, Tohoku University, Japan

Jatinder Sidhu, CSIRO, Australia



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. This includes microbial toxins, chemical quality and the aesthetic qualities of water.

ISSN: 1477-8920; Vol.16, 6 issues, 2018
Institutional rate (print and online access):
£1,369 / US\$2,475 / €2,019

Journal of Hydroinformatics

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

Editor-in-Chief:

Orazio Giustolisi, Technical University of Bari, Italy

Associate Editors:

Dominic L. Boccelli, University of Cincinnati, USA

Pilar Garcia Navarro, University of Zaragoza, Spain

Philippe Gourbesville, Nice-Sophia Antipolis University /

Polytech Nice Sophia, France

George P. Karatzas, Technical University of Crete, Greece

Gwo-Fong Lin, National Taiwan University, Taiwan

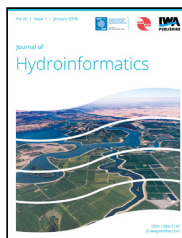
Ole Mark, DHI, Denmark

Dimitri Solomatine, UNESCO-IHE Institute for Water

Education, The Netherlands

Zoran Vojinovic, UNESCO-IHE Institute for Water Education, The Netherlands

Thorsten Wagener, University of Bristol, UK



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

ISSN: 1464-7141; Vol.20, 6 issues, 2018
Institutional rate (print and online access):
£1,542 / US\$2,730 / €2,405

Journal of Water Supply: Research & Technology - AQUA

Editors:

Martin Pivokonsky, Institute of Hydrodynamics ASCR, Czech Republic

Ashok K. Sharma, Victoria University, Australia

Saroj Kumar Sharma, UNESCO - IHE Institute for Water

Education, The Netherlands

Hsin-Hsin Tung, National Taiwan University, Taiwan



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

ISSN: 0003-7214; Vol.67, 8 issues, 2018
Institutional rate (print and online access):
£1,000 / US\$1,712 / €1,445

Water Policy

Official Journal of the World Water Council

Editor-in-Chief:

Jerome Delli Priscoli, USA

Associate Editors:

Bennett L. Bearden, Geological Survey of Alabama, USA

Jonathan Chenoweth, University of Surrey, UK

Bruce Hooper, Bruce Hooper & Associates, Australia

M. Dinesh Kumar, Institute for Resource Analysis and

Policy, India

Rui Cunha Marques, University of Lisbon, Portugal

Konstantinos Tsagarakis, Democritus University of

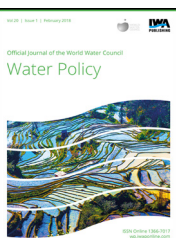
Thrace, Greece

Anthony Turto, University of Free State, South Africa

Pieter van der Zaag, UNESCO-IHE Institute for Water

Education, The Netherlands

Li Yuanyuan, Ministry of Water Resources, China



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

Examples of such topics are:

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

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

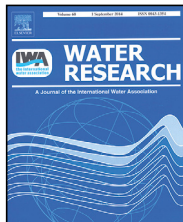
ISSN: 1366-7017; Vol.20, 6 issues, 2018

Institutional rate (print and online access):

£1,204 / US\$2,340 / €1,892

Water Research

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



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

Topics include:

- Treatment processes for water and wastewaters
 - Water quality standards
 - Studies on inland, tidal or coastal waters
 - Limnology of lakes, impoundments and rivers
 - Solid and hazardous waste management
 - Environmental restoration
 - Analysis of the interfaces between sediments and water, and water/atmosphere interactions
 - Modelling techniques; public health and risk assessment.
- Water Research* is published in association with Elsevier Science.

ISSN: 0043-1354; 20 issues

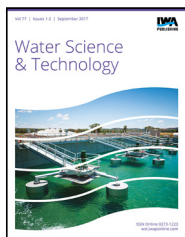
Contact Elsevier Science to subscribe:

Tel: +31 20 485 3757 Fax: +31 20 485 3432

Email: nlinfo-f@elsevier.com

Water Science & Technology

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



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

- Wastewater treatment and transportation processes for stormwater and domestic, industrial and municipal effluents

- Sources of pollution including hazardous wastes and source control
- Effects and impacts of pollution on rivers, lakes, groundwater and marine waters
- Water reuse and aquatic environmental restoration
- Policy, strategy, control and management aspects of water quality.

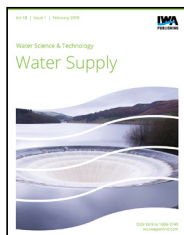
Water Science & Technology – together with its adjunct journals *Water Science & Technology: Water Supply* and *Water Practice & Technology* – has a special mission to serve as a bridge between science, engineering applications and management aspects of water as represented by the many IWA specialist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

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

ISSN: 0273-1223; Vols.77-78, 24 issues, 2018
Institutional rate (print and online access):
€6,090 / US\$11,200 / €9,379

Water Science & Technology: Water Supply

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



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

Subjects covered include:

- Management of water resources (including reservoirs)

- Water treatment technologies, including wastewater reuse and recycling
- Water distribution systems
- Drinking water quality
- Water utility management including economic and social aspects
- Norms and standards.

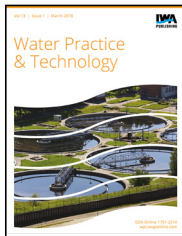
Water Science & Technology: Water Supply has a special mission to serve as a bridge between the many IWA specialist groups and between science, engineering applications and management aspects of water supply. Papers describing progress in full scale implementations are particularly encouraged.

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

ISSN: 1606-9749; Vol.18, 6 issues, 2018
Institutional rate (print and online access):
£2,494 / US\$4,415 / €4,031

Water Practice & Technology

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



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

Types of article include:

- Case studies

- Practical "know-how" reports
- Compilations of data on previously reported processes.

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

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

ISSN (Online): 1751-231X, Vol.13, 2018
Institutional Rate (online only access):
£292 / US\$552 / €423

Special Discounted 'Water' Journal Subscription Package

IWA Publishing is pleased to announce a discounted Water Package for its journals for 2018.

Journals included in the Water Package are:

- Water Science & Technology*
- Water Science & Technology: Water Supply*
- Water Practice & Technology*
- Journal of Water Supply: Research & Technology – AQUA*
- Journal of Hydroinformatics*
- Journal of Water & Health*
- Journal of Water Reuse & Desalination*
- Hydrology Research*
- Water Policy*
- Journal of Water & Climate Change*
- Journal of Water, Sanitation & Hygiene for Development*
- Water Quality Research Journal*

Combined Price: £15,526 / US\$27,417 / €23,150

The combined subscription price includes print subscriptions plus free online access for one site. Additional online access for multi sites is available at extra cost. Contact IWA Publishing for more information.

Subscription information

To subscribe to IWA Publishing journals* please contact:
 Turpin Distribution Ltd.
 Pegasus Drive, Stratton Business Park, Biggleswade
 Bedfordshire, SG18 8TQ, United Kingdom
 Tel: +44 (0)1767 604951
 Fax: +44 (0)1767 601640
 E-mail: iwap@turpin-distribution.com
 Web: www.iwapublishing.com

**Water Research* is published in association with Elsevier Science.

To subscribe please contact Elsevier Science:
 Tel: +31 20 485 3757
 Fax: +31 20 485 3432
 Email: nlinfo-f@elsevier.nl

eTOC Alerts

A FREE pre-publication alerting service, delivered via email.

This valuable service will enable you to keep up-to-date with articles published in IWA Publishing journals. It will deliver the contents pages of each journal issue approximately 2-4 weeks prior to publication.

Don't miss out on this fast and easy way to keep up-to-date with the latest developments in your field.

Pick the journals of your choice and register at:
www.iwaponline.com

Online access

All IWA Publishing journals are available online. An online journal subscription provides the following:

- Fully searchable abstracts and articles
- Full text and PDF papers are available for any article
- Access to all the current year volumes plus all the electronic archives.

Individual members

- Contact IWA Membership: members@iwahq.org

Corporate members

- Contact Ian Morgan (imorgan@iwap.co.uk) for a site licence quote

Institutional non-members

- Register your IP address at: **www.iwaponline.com**

For more information visit: **www.iwaponline.com**

Pay Per View & Ebooks

IWA Publishing has a shopping cart function for its Pay Per View and Ebooks service. This easy to use function allows you to choose a selection of articles from IWA Publishing journals and WIO to suit your needs, all in one transaction. If you are looking for individual articles and you or your library are not subscribers to IWA Publishing journals, then you can get access online for just \$38 per article via simple secure credit card transaction.

FREE Sample Copies

Please contact publications@iwap.co.uk for free sample copies of selected journals, or visit the journal sample website!



Water Intelligence Online

An Online Water, Wastewater and Environmental Reference Library

Annual Subscription • Perpetual Access • No Maintenance fee

Water Intelligence Online
The IWA Publishing Digital Reference Library

About Water Intelligence Online Subscribe For Authors For Librarians For Readers Help

The IWA Publishing Digital Reference Library

Water Intelligence Online

Practical Guide to Wastewater Treatment
Water Conservation in Urban Households
Water Energy
Preparing Urban Water Use Efficiency Plans
Milestones in Water Reuse

WATER COMMUNICATION
Experimental Methods in Wastewater Treatment
Integrated Water Resource Management in Brazil
COMPUTATIONAL HYDRAULICS
Shoofading Asia

Continuity in Basin Water Management and Basin Capital
Federal Rivers
Journal of International Water Resources Research
Water Conservation in Urban Households
PROGRESS IN CLAY AND POLYMER FLOCCULATION PROCESSES

IWA Publishing Books
WERF research reports
Selected research reports from the EC, STOWA and KIWA
IWA and industry related conference papers
Peer reviewed research papers

Abstracts are free to search and browse; full text viewed with a subscription or via pay-per-view on an item-by-item basis.

An extensive reference library for individuals, libraries and institutions.

The archive currently comprises over 300 major reference books and reports on water, wastewater and related environmental topics.

Subscription to Water Intelligence Online gives you access to all IWA Publishing Ebooks and research reports.

Over 30 newly published titles are added each year.

New publications available to annual subscribers only. Perpetual Access users can access new publications for a small additional fee.

Annual Subscription for 2018: US\$4,981

Perpetual Access to the Ebook package to end of 2017: US\$23,100

Visit: iwaponline.com/wio

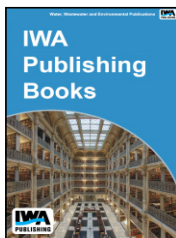
For more information, contact your representative or email us at publications@iwap.co.uk.

Health Related Water Issues

Regenerative Sanitation

A Framework for Sanitation 4.0

Editors: Thammarat Koottatep, Peter Emmanuel Coockey and Chongrak Polprasert



The main purpose of this book is to present the principles of regenerative sanitation, a novel holistic, integrated and systemic concept that embraces the dynamic complexities and contextual peculiarities of 'place and scale' in delivering sanitation solutions. It will show for the first time how the three sub-systems of sanitation (socio-ecological, resource recovery and technology) are inter-synergistically linked in a systemic whole to deliver comprehensive integrated sanitation solutions. It shall present up-to-date research findings and applicable cases on the six main sanitation dimensions: Psycho-socio-ecophilia (PSEP), resource recovery and reuse (RRR), existing improved design and technology (EIDT), restorative design and technology (RDT), nouveau design and technology (NDT) and governance.

February 2019 • 250 pages • Paperback

ISBN: 9781780409672

Ebook ISBN: 9781780409689

Non Members Price: £ 70.00 / US\$ 105.00 / € 88.00

IWA Members Price: £ 53.00 / US\$ 80.00 / € 66.00

contribution to disseminating useful knowledge in this area. The volume contains 10 short reviews of key aspects of this issue, supplemented by a further 14 case studies, each of which focusses on a particular area or technological or other practice, and written by leading experts in the field. Detailed selective reference lists provide pointers to more detailed guidance on relevant practice.

The volume includes coverage of (i) arsenic hazard in groundwater and exposure routes to humans, including case studies in USA, SE Asia and UK; (ii) health impacts arising from exposure to arsenic in drinking water and biomonitoring approaches; (iii) developments in the nature of regulation of arsenic in drinking water; (iv) sampling and monitoring of arsenic, including novel methodologies; (v) approaches to remediation, particularly in the context of water safety planning, and including case studies from the USA, Italy, Poland and Bangladesh; and (vi) socio-economic aspects of remediation, including non-market valuation methods and local community engagement.

Includes five chapters available as free Open Access files

This title is part of the Best Practice Guides on Metals and Related Substances in Drinking Water Series

July 2017 • 300 pages • Paperback

ISBN: 9781843393856

Ebook ISBN: 9781780404929

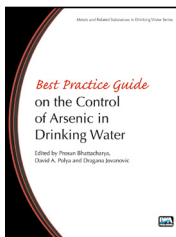
Non Members Price: £ 85.00 / US\$ 106.00 / € 128.00

IWA Members Price: £ 64.00 / US\$ 80.00 / € 96.00

Health Related Water Issues

Best Practice Guide on the Control of Arsenic in Drinking Water

Editors: Prosun Bhattacharya, David Polya and Dragana Jovanovic



Arsenic in drinking water derived from groundwater is arguably the biggest environmental chemical human health risk known at the present time, with well over 100,000,000 people around the world being exposed. Monitoring the hazard, assessing exposure and health risks and implementing effective remediation are therefore key tasks for organisations and

individuals with responsibilities related to the supply of safe, clean drinking water.

Best Practice Guide on the Control of Arsenic in Drinking Water, covering aspects of hazard distribution, exposure, health impacts, biomonitoring and remediation, including social and economic issues, is therefore a very timely

Industry & Water

Wealth Creation without Pollution

Designing for Industry, Ecobusiness Parks and Industrial

Editors: Brian D'Arcy, Lee-Hyung Kim and Marla Maniquiz-Redillas



The development of eco-industrial parks and associated 'ecological industry' concepts offer progressive integrated approaches to resolve pollution problems from effluents and wastes of all kinds. Most industry however is now located in business parks and industrial estates, with relatively few industries having direct discharges of process effluents to the water environment. But that does not mean no pollution. Many of these estates are very large, with many companies of all kinds spread over extensive areas. All have surface water drainage and stormwater runoff is often contaminated by many diffuse sources.

Wealth Creation without Pollution is the culmination

of several years of deliberations by academics and regulators, engaging with industrial and commercial sectors to characterise and quantify environmental problems and identify best practice solutions. Equally important have been efforts to explore sufficiently flexible regulatory regimes that offer effective means to prevent pollution and achieve good working environments in which industry and commerce can flourish.

This book explores how modern industries are striving towards more sustainable practices, with case studies of impacts and of greener industry practices, as well as philosophical and policy papers. The role of regulators, planners and government in fostering a greener industrial base is also examined.

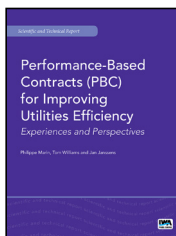
Wealth Creation without Pollution is a valuable text book for environmental science and engineering students, and a useful resource for industrial architects, developers and practitioners.

November 2017 • 330 pages • Paperback
ISBN: 9781780408330
Ebook ISBN: 9781780408347
Non Members Price: £ 89.00 / US\$ 111.00 / € 134.00
IWA Members Price: £ 67.00 / US\$ 84.00 / € 101.00

Policy & Governance

Performance-Based Contracts (PBC) for Improving Utilities Efficiency

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



Scientific and Technical Report No. 24

Performance-Based Contracts (PBC) for Improving Utilities Efficiency: Experiences and Perspectives is a compendium of articles written by members of the PBC taskforce. It focuses on new approaches without delegated management to private operator i.e. service contracts, consulting

contracts, Alliance approach, public-public partnership. It also mentions new design and generation of more traditional PPPs, (MC, lease, concession), where a larger proportion of performance-based design is being applied.

This title belongs to the Scientific and Technical Report Series

August 2018 • 200 pages • Paperback
ISBN: 9781780405957
Ebook ISBN: 9781780405964
Non Members Price: £ 95.00 / US\$ 143.00 / € 119.00
IWA Members Price: £ 71.00 / US\$ 107.00 / € 89.00

Policy & Governance

Water Consumption, Tariffs and Regulation

Editors: Francesc Hernandez-Sancho and Maria Molinos-Senante



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

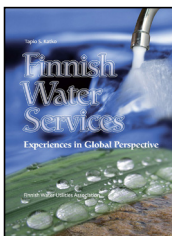
The book is structured in three main parts. Part I presents tables and figures relative to water consumption and sanitation status and focuses on water abstraction, water delivered, water consumption and the evolution of sewer connection and wastewater treatment. Part II focuses on the analysis of water tariffs by investigating the structure of water tariffs by analysing the importance of the variable and fixed charge. It presents drinking water tariffs and illustrates the relationship between tariffs and GDP and also the size of the cities. Finally, charges in wastewater are dealt with country by country. Part III analyses the main aspects relative to water regulation and describes the importance of private operators in the management of the water cycle. Information relative to the principles used to fix drinking water prices is presented with an assessment of access to public water services.

November 2018 • 200 pages • Paperback
ISBN: 9781780404677
Ebook ISBN: 9781780404684
Non Members Price: £ 85.00 / US\$ 106.00 / € 128.00
IWA Members Price: £ 64.00 / US\$ 80.00 / € 96.00

Policy & Governance

Finnish Water Services

Experiences in Global Perspective
 Editors: Tapio Katko and Bo Højris



Finnish Water Services: Experiences in Global Perspective, the latest book by UNESCO Chair holder Tapio S. Katko, challenges the reader to assess critical sector issues:

- Can 24/7 access to safe drinking water be taken for granted?
- What threats does deterioration of water and sewage networks pose?
- Who are responsible for providing and producing water services?
- Why do many international water-related comparisons rank Finland among the top countries?

This book is a timely contribution to the discussion on water services. In addition to water professionals, *Finnish Water Services: Experiences in Global Perspective* is suitable for anyone interested in water and its use.

June 2017 • 288 pages • Ebook only

Ebook ISBN: 9781780408743

Non Members Price: £ 48.00 / US\$ 65.00 / € 86.00

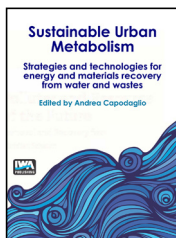
IWA Members Price: £ 36.00 / US\$ 49.00 / € 65.00

Urban Water

Sustainable Urban Metabolism

Strategies and technologies for energy and materials recovery from water and wastes

Editor: Andrea Capodaglio



Sustainable Urban Metabolism summarizes the state-of-the-art in issues related to sustainable urban metabolism referred to treatment and management of water, wastewater and solid wastes, with specific reference to state-of-the-art applicable technologies for energy savings and recovery.

November 2018 • 300 pages • Paperback

ISBN: 9781780408934

Ebook ISBN: 9781780408941

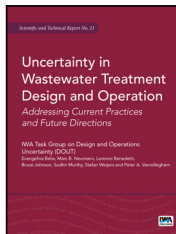
Non Members Price: £ 95.00 / US\$ 119.00 / € 143.00

IWA Members Price: £ 72.00 / US\$ 90.00 / € 108.00

Utility Management

Uncertainty in Wastewater Treatment Design and Operation

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



Uncertainty in Wastewater Treatment Design and Operation documents how uncertainty, opportunity and risk are currently handled in the wastewater treatment practice by consultants, utilities and regulators. The book provides a useful set of terms and definitions relating to uncertainty and promotes an understanding of the issues and terms involved. It

identifies the sources of uncertainty in different project phases and presents a critical review of the available methods. Real-world examples are selected to illustrate where and when sources of uncertainty are introduced and how models are implemented and used in design projects and in operational optimisation. *Uncertainty in Wastewater Treatment Design and Operation* defines the

developments required to provide improved procedures and tools to implement uncertainty and risk evaluations in projects. It is a vital reference for utilities, regulators, consultants, and trained management dealing with certainty, opportunity and risk in wastewater treatment.

This title belongs to the Scientific and Technical Report Series

February 2019 • 300 pages • Paperback

ISBN: 9781780401027

Ebook ISBN: 9781780401034

Non Members Price: £ 99.00 / US\$ 149.00 / € 124.00

IWA Members Price: £ 74.00 / US\$ 111.00 / € 93.00

Utility Management

Public-private Partnerships in the Water Sector

From Theory to Practice

Authors: Rui Cunha Marques and Carlos Oliveira Cruz



Ensuring quality and affordability in the water services is a fundamental requirement for the social, economic and environmental development of modern societies. Achieving this goal requires dealing with a large diversity of challenges, such as efficiency, investment, governance, procurement and sustainability, while ensuring the alignment of the stakeholder's

objectives, often with conflicting expectations. Public-private Partnerships (PPPs) have emerged as a desirable model for Governments to develop and improve water services, particularly due to the shortage of public financing.

Although PPPs have proven to be able to deliver value for money in public services provision, the empirical evidence also shows that there are significant risks in the use of this procurement model.

Public-Private Partnerships in the Water Sector: From Theory to Practice provides an integrated overview of the life-cycle process for successfully developing and managing PPPs, from the preliminary studies and public tender stage to the contract management and regulation, and also addressing the critical issues on contract design. It provides the theoretical background for the use of PPPs, and addresses the challenging question of implementing and managing PPPs in developing economies. This is a unique manual for those engaged in the water sector and, particularly for Central and Local Governments, private sector operators and academics dealing with the provision of water services and private sector participation in public services.

November 2018 • 200 pages • Paperback

ISBN: 9781780406435

Ebook ISBN: 9781780406442

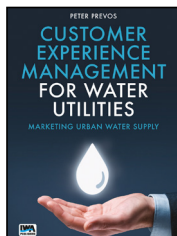
Non Members Price: £ 89.00 / US\$ 111.00 / € 134.00

IWA Members Price: £ 67.00 / US\$ 84.00 / € 101.00

Utility Management

Customer Experience Management for Water Utilities*Marketing urban water supply*

Author: Peter Prevos



This book presents a practical framework for water utilities to become more focussed on their customers. This framework is founded on Service-Dominant Logic, a contemporary theory of marketing that explains value creation as a process of co-creation between the customer and the service provider.

Standard models for marketing do not apply to monopolistic water utilities without modification. The first two chapters develop a marketing mix tailored to water utilities to assist them with providing customer-centric services. The water utility marketing mix includes the value proposition, internal marketing, service quality and customer relationships.

The book discusses the four dimensions of the marketing mix. Chapter three presents a template for developing value propositions to assist water utilities in positioning their service. This model is based on the needs and wants of individual customer segments and the type of service. Chapter four discusses internal marketing, activities designed to improve the way utilities add value for customers. This chapter also analyses potential tensions between engineering and science-oriented employees and proposes methods to resolve these tensions. The final chapters describe customer relationships from both a theoretical and practical perspective. The customer experience is a complex phenomenon that is difficult to quantify. The book provides a method to measure the experience of the customer, based on service quality theory and psychometric statistics.

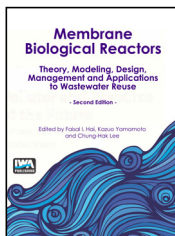
Customer Experience Management for Water Utilities is one of the first books that discusses urban water supply from a marketing perspective. This perspective provides a unique insight into an industry which is often dominated by technological concerns. This book is a valuable resource for Water Utility Managers and Regulators, as well as for Marketing Consultants seeking to assist water utilities to become more customer focussed.

October 2017 • 220 pages • Paperback**ISBN: 9781780408668****Ebook ISBN: 9781780408675****Non Members Price: £ 65.00 / US\$ 81.00 / € 98.00****IWA Members Price: £ 49.00 / US\$ 61.00 / € 74.00**

Wastewater, Reuse & Sludge

Membrane Biological Reactors*Theory, Modeling, Design, Management and Applications to Wastewater Reuse*
Second edition

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



The MBR market continues to experience a massive growth. The best practice in the field is constantly changing and unique quality requirements and management issues are regularly emerging. The second edition of *Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse*

comprehensively covers the salient features and emerging issues associated with the MBR technology. The book provides thorough coverage starting from biological aspects and fundamentals of membranes, via modeling and design concepts, to practitioners' perspective and good application examples.

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 an in depth coverage in the new edition. A new chapter has been added to provide stronger focus on reuse applications in general and the decisive role of MBR in 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.

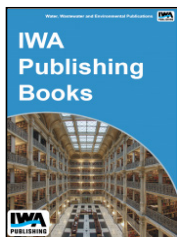
The new edition is a valuable reference to the academic and professional community and suitable for undergraduate and postgraduate teaching in Environmental Engineering, Chemical Engineering and Biotechnology.

January 2019 • 500 pages • Hardback**ISBN: 9781780409160****Ebook ISBN: 9781780409177****Non Members Price: £ 130.00 / US\$ 163.00 / € 195.00****IWA Members Price: £ 98.00 / US\$ 123.00 / € 147.00**

Wastewater, Reuse & Sludge

Anaerobic Reactors for Sewage Treatment*Design, construction and operation*

Editors: Carlos Augusto de Lemos Chernicharo and Thiago Bressani



Contents: Introduction to anaerobic sewage treatment; Anaerobic sewage treatment as a way to improve sanitation in the developing world; Fundamentals of anaerobic sewage treatment; Design of UASB reactors for sewage treatment; Construction of UASB reactors for sewage treatment; Operation of UASB reactors for sewage treatment; Full-scale experiences

with UASB reactors; Energy recovery from biogas in anaerobic-based STPs: state of the art; Control of diffuse emissions; Post-treatment of anaerobic effluents; Closing cycles in anaerobic-based sewage treatment systems; New developments and future perspectives.

February 2019 • 300 pages • Paperback

ISBN: 9781780409221

Ebook ISBN: 9781780409238

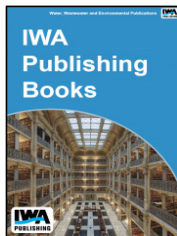
Non Members Price: £ 85.00 / US\$ 106.00 / € 128.00

IWA Members Price: £ 64.00 / US\$ 80.00 / € 96.00

Wastewater, Reuse & Sludge

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

Editor: Damien Batstone



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.

This title belongs to the Scientific and Technical Report Series

March 2019 • 120 pages • Paperback

ISBN: 9781780409825

Non Members Price: £ 70.00 / US\$ 88.00 / € 105.00

IWA Members Price: £ 53.00 / US\$ 66.00 / € 80.00

Wastewater, Reuse & Sludge

Methods for Faecal Sludge Analysis

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



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.

Due to the lack of standard methods for sampling and analysis of faecal sludge, standard methods from other fields such as water, wastewater and soil science are usually applied. However, these methods are not necessarily the most suitable for faecal sludge, and have not been specifically adapted for that purpose. Characteristics of faecal sludge are typically different from these other matrices by orders of magnitude. The methods for faecal sludge sampling are also greatly complicated by the wide range of technologies in each local context, and the heterogeneity within systems. Another gap in existing knowledge is how to quantify faecal sludge on a city-wide scale, or scale relevant for the design of treatment technologies. Moreover, the lack of standardisation complicates the transfer of knowledge and data between different regions and institutions as the results are not comparable. This illustrates the urgent need to establish common methods and procedures for faecal sludge characterisation and quantification.

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.

Available as a free Open Access ebook

March 2019 • 350 pages • Hardback

ISBN: 9781780409115

Ebook ISBN: 9781780409122

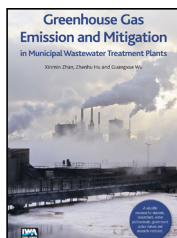
Non Members Price: £ 105.00 / US\$ 158.00 / € 131.00

IWA Members Price: £ 79.00 / US\$ 119.00 / € 99.00

Wastewater, Reuse & Sludge

Greenhouse Gas Emission and Mitigation in Municipal Wastewater Treatment Plants

Authors: Xinmin Zhan, Zhenhu Hu and Guangxue Wu



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

therefore it is necessary to carry out intensive studies on quantification, assessment and characterization of GHG emissions in wastewater treatment plants, on the life cycle assessment from GHG emission prospective, and on the GHG mitigation strategies.

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

The book is a valuable resource for undergraduate and postgraduate students in the water, climate, and energy areas of research. It is also a useful reference source for water professionals, government policy makers, and research institutes.

January 2018 • 160 pages • Paperback

ISBN: 9781780406305

Ebook ISBN: 9781780406312

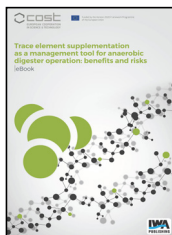
Non Members Price: £ 65.00 / US\$ 81.00 / € 98.00

IWA Members Price: £ 49.00 / US\$ 61.00 / € 74.00

Wastewater, Reuse & Sludge

Trace Element Supplementation as a Management Tool for Anaerobic Digester Operation

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



This guide is intended for use by industry stakeholders, decision-makers and digester operators in navigating the topic of trace element (TE) supplementation as a management tool for anaerobic digester operation.

The subject is the application of TE, and supplementation regimes in anaerobic waste-conversion

biotechnologies, such as biogas digesters. TE is a term used to include a wide range of micronutrients essential for the microbial community underpinning AD. TE mostly includes elements from the metal groups (e.g. cobalt, nickel, zinc and tungsten) but also other elemental groups, such as metalloids (e.g. selenium). TE are dosed to anaerobic digesters to boost biological activity and to increase biogas production rates. Little is understood about the concentrations and dosing strategies best suited to sustained supplementation and stable performance in anaerobic biotechnologies.

A range of companies offer proprietary blends of trace elements for supplementation of anaerobic digesters. Very little joined-up information is available on the concentrations of individual TE best suited to improved digester performance. Moreover, typically no attention whatsoever is paid to the bioavailability of TE dosed to digesters i.e. despite high concentrations, TE may not be available for uptake by the microorganisms underpinning the digestion process.

Based on extensive engagement with a range of stakeholders throughout the course of the recent EU COST Action on 'The ecological roles of trace metals in anaerobic biotechnologies', and particularly on feedback from industrial partners, it is clear that such a guide is needed by industry stakeholders, decision-makers and operators of anaerobic digesters.

Available as a free Open Access ebook

March 2018 • 15 pages • Ebook only

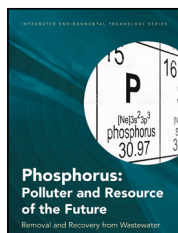
Ebook ISBN: 9781780409429

Wastewater, Reuse & Sludge

Phosphorus: Polluter and Resource of the Future

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

Editor: Christian Schaum



Phosphorus has always been both a curse and a blessing. On the one hand, it is essential for all life forms and cannot be replaced by anything. On the other hand, wastewater treatment aims to minimize phosphorus concentrations in wastewater in order to minimize its discharge into rivers and lakes, where eutrophication caused by high phosphorus concentrations would lead to excessive plant growth. Phosphorus is extracted from rock phosphate deposits, which are finite and non-renewable. And as the issue of resource conservation is the focus of attention worldwide, phosphorus must be used sustainably. This includes recycling of secondary phosphates, efficient extraction and treatment of raw phosphate as well as its efficient use. *Phosphorus: Polluter and Resource of the Future* discusses all aspects of both phosphorus elimination and recovery and summarizes the latest state of phosphorus recovery technologies.

This book is part of the *Integrated Environmental Technology Series*

This book is part of the Integrated Environmental Technology Series

June 2018 • 590 pages • Hardback

ISBN: 9781780408354

Ebook ISBN: 9781780408361

Non Members Price: £ 145.00 / US\$ 218.00 / € 181.00

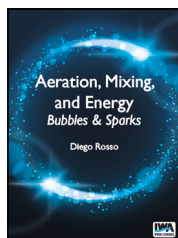
IWA Members Price: £ 109.00 / US\$ 164.00 / € 136.00

Wastewater, Reuse & Sludge

Aeration, Mixing, and Energy

Bubbles & Sparks

Editor: Diego Rosso



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

The book is a valuable complement to any book on water

reclamation and wastewater treatment.

October 2018 • 220 pages • Paperback

ISBN: 9781780407838

Ebook ISBN: 9781780407845

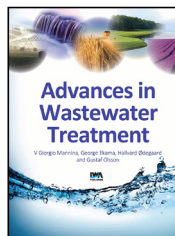
Non Members Price: £ 89.00 / US\$ 111.00 / € 134.00

IWA Members Price: £ 67.00 / US\$ 84.00 / € 101.00

Wastewater, Reuse & Sludge

Advances in Wastewater Treatment

Editors: Giorgio Mannina, George Ekama, Hallvard Ødegaard and Gustaf Olsson



The book presents a compendium of the key topics surrounding wastewater treatment, assembled by looking at the future technologies, and provides future perspectives in wastewater treatment and modelling. It covers the fundamentals and innovative wastewater treatment processes (such as membrane bioreactors and granular process). Furthermore, the

book will focus attention on mathematical modelling aspects in the field of wastewater treatments by highlighting the key role of models in process design, operation and control. Each topic will be addressed by discussing past, present and future trends.

October 2018 • 350 pages • Paperback

ISBN: 9781780409702

Ebook ISBN: 9781780409719

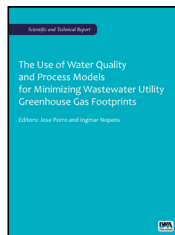
Non Members Price: £ 140.00 / US\$ 210.00 / € 175.00

IWA Members Price: £ 105.00 / US\$ 158.00 / € 131.00

Wastewater, Reuse & Sludge

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

Editors: Jose Porro and Ingmar Nopens



Scientific and Technical Report No. 26

This book provides an understanding of the processes that are responsible for the major contributions to GHG emissions from WWTP and sewer systems (e.g. heterotrophic denitrification, autotrophic nitrification, autotrophic denitrification, methanogenesis).

This knowledge is translated into mathematical models that can be embedded in system/plant-wide models allowing multi-criteria optimisation.

This title belongs to the Scientific and Technical Report Series

December 2018 • 200 pages • Paperback

ISBN: 9781780408262

Ebook ISBN: 9781780408279

Non Members Price: £ 89.00 / US\$ 111.00 / € 134.00

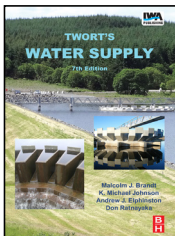
IWA Members Price: £ 67.00 / US\$ 84.00 / € 101.00

Wastewater, Reuse & Sludge

Twort's Water Supply

Seventh edition

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



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

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

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

January 2017 • 966 pages • Hardback

ISBN: 9781780406411

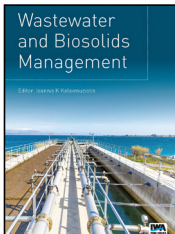
Non Members Price: £ 85.00 / US\$ 106.00 / € 128.00

IWA Members Price: £ 64.00 / US\$ 80.00 / € 96.00

Wastewater, Reuse & Sludge

Wastewater and Biosolids Management

Editor: Ioannis K. Kalavrouziotis



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

The book aims to present existing modern information about wastewater reuse management based on earlier literature on the one hand and recent research

developments, many of which have not so far been implemented into actual practice on the other. It combines the practical and theoretical knowledge about 'wastewater and biosolids management' and in this sense it is useful for researchers, students, academics as well as for professionals.

June 2017 • 138 pages • Hardback

ISBN: 9781780408224

Ebook ISBN: 9781780408231

Non Members Price: £ 85.00 / US\$ 106.00 / € 128.00

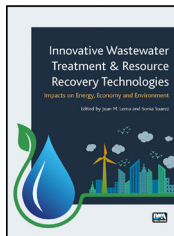
IWA Members Price: £ 64.00 / US\$ 80.00 / € 96.00

Wastewater, Reuse & Sludge

Innovative Wastewater Treatment Resource Recovery Technologies

Impacts on Energy, Economy and Environment

Editors: Juan M. Lema and Sonia Suarez Martinez



This book introduces the 3R concept applied to wastewater treatment and resource recovery under a double perspective. Firstly, it deals with innovative technologies leading to: Reducing energy requirements, space and impacts; Reusing water and sludge of sufficient quality; and Recovering resources such as energy, nutrients, metals and chemicals, including

biopolymers. Besides targeting effective C, N&P removal, other issues such as organic micropollutants, gases and odours emissions are considered. Most of the technologies analysed have been tested at pilot- or at full-scale. Tools and methods for their Economic, Environmental, Legal and Social impact assessment are described.

The 3R concept is also applied to Innovative Processes design, considering different levels of innovation: Retrofitting, where novel units are included in more conventional processes; Re-Thinking, which implies a substantial flowsheet modification; and Re-Imagining, with completely new conceptions. Tools are presented for Modelling, Optimising and Selecting the most suitable plant layout for each particular scenario from a holistic technical, economic and environmental point of view.

June 2017 • 690 pages • Paperback

ISBN: 9781780407869

Ebook ISBN: 9781780407876

Non Members Price: £ 149.00 / US\$ 186.00 / € 224.00

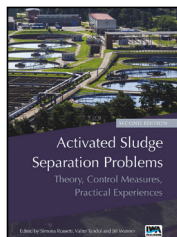
IWA Members Price: £ 112.00 / US\$ 140.00 / € 168.00

Wastewater, Reuse & Sludge

Activated Sludge Separation Problems

Theory, Control Measures, Practical Experiences
 Second edition

Editors: Simona Rossetti, Valter Tandoi and Jiri Wanner



This book describes the most common activated sludge separation problems and explains the main reasons for the growth of the different filamentous microorganisms in activated sludge. It summarizes the identification techniques for important groups of activated sludge microorganisms both based on conventional microscopic analysis and using the

biological molecular tools available today (FISH and PCR).

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

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

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

September 2017 • 320 pages • Paperback

ISBN: 9781780408637

Ebook ISBN: 9781780408644

Non Members Price: £ 95.00 / US\$ 119.00 / € 143.00

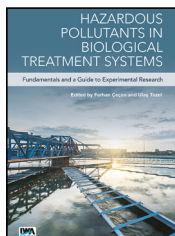
IWA Members Price: £ 72.00 / US\$ 90.00 / € 108.00

Wastewater, Reuse & Sludge

Hazardous Pollutants in Biological Treatment Systems

Fundamentals and a Guide to Experimental Research

Editors: Ferhan Çeçen and Ulas Tezel



Hazardous pollutants are a growing concern in treatment engineering. In the past, biological treatment was mainly used for the removal of bulk organic matter and the nutrients nitrogen and phosphorus. However, relatively recently the issue of hazardous pollutants, which are present at very low concentrations in wastewaters and waters but are very harmful to both ecosystems

and humans, is becoming increasingly important. Today, treatment of hazardous pollutants in the water environment becomes a challenge as the water quality standards become stricter. *Hazardous Pollutants in Biological Treatment Systems* focuses entirely on the hazardous pollutants present in wastewater and water and gives an elaborate insight into their fate and effects during biological treatment.

Currently, in commercial and industrial products and processes, thousands of chemicals are used that reach water. Many of those chemicals are carcinogens, mutagens, endocrine disruptors and toxicants. Therefore, water containing hazardous pollutants should be treated before discharged to the environment or consumed by humans.

This book first addresses the characteristics, occurrence and origin of hazardous organic and inorganic pollutants. Then, it concentrates on the fate and effects of these pollutants in biological wastewater and drinking water treatment units. It also provides details about analysis of hazardous pollutants, experimental methodologies, computational tools used to assist experiments, evaluation of experimental data and examination of microbial ecology by molecular microbiology and genetic tools.

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

November 2017 • 400 pages • Paperback

ISBN: 9781780407708

Ebook ISBN: 9781780407715

Non Members Price: £ 120.00 / US\$ 150.00 / € 180.00

IWA Members Price: £ 90.00 / US\$ 113.00 / € 135.00

How IWA Publishing is different from other STM publishers

Expertise

IWA Publishing is a leading international publisher of water, wastewater and environmental publications. We specialise in water and environmental scientific publications and we have a range of experience in this research area. We form partnerships with our authors and we want to help them achieve the widest reach for their work.

Community

As a not-for-profit organization the net profit from the books publishing programme goes to the International Water Association (IWA) in the form of gift aid, which in turn helps support the work of Specialist Groups and Task Groups worldwide.

Selectivity

We publish a holistic and thoughtfully curated collection of books. We have a backlist that exceeds 1000 titles and we believe in publishing a catalogue of works that complement each other. Each book is unique for us and we present it in a way that it stands out on its own merits.

Service

IWA Publishing comprises a dedicated team of specialists that are experienced in both publishing and our subject areas. From Editorial and Digital Infrastructure to Marketing and Sales Distribution, the team that will be working with you will be able to help your book reach a worldwide community of researchers. Your title will be published in print and ebook formats simultaneously and production time is usually only 4 months from manuscript delivery to publication.

Open Access

IWA Publishing are dedicated to increasing accessibility of important water-related research all over the world. In addition to our regular books programme, we also publish books and individual chapters as Open Access in return for a 'book processing charge'.

Worldwide Reach

IWA holds over 40 water-related conferences around the world every year and this provides excellent exposure for books to the international marketplace. IWA Publishing attends all major industry events throughout the world including Stockholm Water Week, Singapore Water Week and the World Water Forum.

Network

We collaborate with leading researchers worldwide and by working with us you will be joining a valuable network. IWA has a world-wide network of 10,000 water professionals who are experts in research, practice, regulation, industry, consulting and manufacturing. IWA Publishing's author list consists of renowned professionals and scientists at the forefront of research in water and the environment.

Global distribution

With extensive experience in the international distribution of scientific, technical and professional publications as well as specialist knowledge in the field, IWA Publishing offers the opportunity for significant sales worldwide. We have book agents and centres in Australia, Chinese Taiwan, China, Korea, Vietnam, Thailand, Malaysia, Philippines, Singapore, India, Japan, Middle East, UK, USA and Canada.

Discounts

As an IWA Publishing author you have access to a fantastic 50% discount. The discount is applied not only to your own book but also across our collection of books, ebooks, reference works and manuals of practice. Complimentary copies of your book are supplied on publication.

Find the guidelines for book authors on our website:

iwapublishing.com/about-us/author-centre/guidelines-book-authors

We look forward to working with you!

Contact us to discuss your publishing proposal:

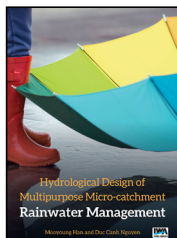
**Mark Hammond
Book Editor**

mhammond@iwap.co.uk

Water Resources & Environment

Hydrological Design of Multipurpose Micro-catchment Rainwater Management

Authors: Mooyoung Han and DucCanh Nguyen



Rainwater as a resource has been underrated due to scientific misunderstandings about its quality, the lack of hydrologic design tools for small catchments, such as roofs, the preference for large infrastructures, and the small number of successful cases reported. This book summarizes 17 years of scientific research, operational monitoring, and

practical demonstration projects made at Seoul National University Rainwater Research Center.

A new paradigm of rainwater is proposed, which is to collect rainwater and use it, instead of draining it. Based on conventional hydrology and methodology, a hydrologic modelling method for micro-catchment is suggested. By incorporating several controllable measures into the design, the system can solve several water-related problems such as flooding, water conservation, emergency water storage, and groundwater recharge.

Now is the time to adapt. Many good examples are reported from around the world, including South Korea. Fifty-nine South Korean cities have announced regulations and commitment to become 'Rain Cities' by offering financial incentives to rainwater management systems or subsidizing them.

This book is written to give hope to those who seek to transform their community from a 'Drain City' to a 'Rain City'. It has been prepared to clear the ambiguity about rainwater management and transform the experts as well as the citizens to become active proponents of rainwater. This book can be a guide to transform the world into Rain Cities, and become a viable solution toward Sustainable Development Goal Number 6.

March 2018 • 176 pages • Paperback

ISBN: 9781780408705

Ebook ISBN: 9781780408712

Non Members Price: £ 70.00 / US\$ 88.00 / € 105.00

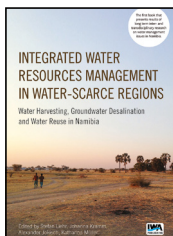
IWA Members Price: £ 53.00 / US\$ 66.00 / € 80.00

Water Resources & Environment

Integrated Water Resources Management in Water-scarce Regions

Water Harvesting, Groundwater Desalination and Water Reuse in Namibia

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



The book consolidates the transdisciplinary research of the project "CuveWaters: Integrated Water Resources Management in Central Northern Namibia (Cuvelai Basin) in the SADC-Region" funded by the German Federal Ministry for Education and Research (BMBF) and undertaken from 2004 to 2015 in Namibia. In these eleven years it was possible to accomplish all three

phases of an ideal-typical transdisciplinary research process, from creating a common research object down to transdisciplinary dissemination. The trans-disciplinary research approach was designed to tackle the life-world problems of food security, sanitation and access to water in a sustainable way. It aimed at integrating science, technology and society with the common goal of establishing a multi-resource mix for water use to improve the living conditions of people in the project region. This 'multi-resource mix' comprises water from different sources made available through adapted technological solutions which are socially embedded. The technological solutions identified with the Namibian partners were rainwater and floodwater harvesting, groundwater desalination, sanitation and water reuse. Each technological solution is reflected in terms of approach, technology, social aspects, management and governance issues, economic viability and sustainability evaluation.

The book shows how technological innovation must go hand in hand with social innovation regarding knowledge, practices and institutions. A comprehensive report of the design, methodologies and procedures as well as the research findings and conclusions is provided here. The aim of the book is to share with researchers, professionals and practitioners the lessons learned during the project and provide guidance for replication.

April 2018 • 278 pages • Paperback

ISBN: 9781780407906

Ebook ISBN: 9781780407913

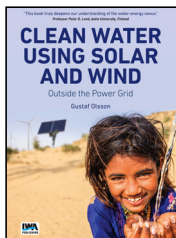
Non Members Price: £ 89.00 / US\$ 111.00 / € 134.00

IWA Members Price: £ 67.00 / US\$ 84.00 / € 101.00

Water Resources & Environment

Clean Water Using Solar and Wind*Outside the Power Grid*

Author: Gustaf Olsson



The aim of *Clean Water Using Solar and Wind* is to make water professionals aware of the possibilities that solar photo-voltaic (PV) and wind offer to bring, not only clean energy but also clean water to remote and rural areas in Africa and developing Asia as well as in many peri-urban areas in the developing world. These areas are located outside the conventional electric grids and a grid connection is usually not economically feasible. The systems are scalable and can be designed to any size, from the household level to village and community levels. It also means that more capacity can be readily added when demand increases.

Two important factors are emphasized: economy and geopolitics. Renewable energy sources are products of manufacturing. Using mass manufacturing means that the cost is related to economy of scale. The fact that manufacturing in principle can be conducted anywhere means that renewables can offer genuine energy security. The cost is up-front and then the "fuel" is free. There is no geopolitical pressure where one country has deposits of a fossil fuel but another does not. Renewables promise an end to the era where energy security is closely related to geopolitics.

This book brings new perspectives concerning decentralized water treatment. Cost development is the key driving force.

September 2018 • 150 pages • Paperback

ISBN: 9781780409436

Ebook ISBN: 9781780409443

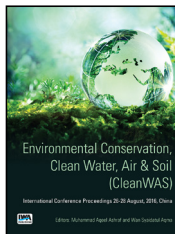
Non Members Price: £ 50.00 / US\$ 63.00 / € 75.00

IWA Members Price: £ 38.00 / US\$ 48.00 / € 57.00

Water Resources & Environment

Environmental Conservation, Clean Water, Air & Soil (CleanWAS)*International Conference Proceedings 26 -28 August, 2016, China*

Editors: Muhammad Aqeel Ashraf and Wan Syaidatul Aqma



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

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

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

February 2017 • 374 pages • Paperback

ISBN: 9781780408156

Ebook ISBN: 9781780408163

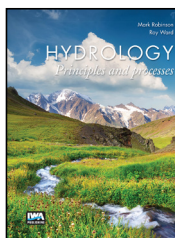
Non Members Price: £ 125.00 / US\$ 156.00 / € 188.00

IWA Members Price: £ 94.00 / US\$ 118.00 / € 141.00

Water Resources & Environment

Hydrology*Principles and Processes*

Authors: M. Robinson and R. C. Ward



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

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

February 2017 • 404 pages • Paperback

ISBN: 9781780407289

Ebook ISBN: 9781780407296

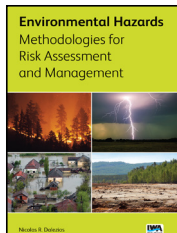
Non Members Price: £ 69.00 / US\$ 86.00 / € 104.00

IWA Members Price: £ 55.00 / US\$ 69.00 / € 83.00

Water Resources & Environment

Environmental Hazards Methodologies for Risk Assessment and Management

Editor: Nicolas R. Dalezis



In the 21st century there has been an increasing awareness of risk in the environment and a growing concern for the potential damage caused by hazards. To ensure environmental sustainability a better understanding of natural disasters and their impacts is essential, including risk analysis.

This book emphasises

methodological approaches to the main components of risk assessment of environmental hazards, namely nowcasting (before), monitoring (during) and assessment (after), based on geoinformatic technologies and simulation through examples and case studies. It covers hydrological hazards (floods, droughts, storms, hail, desertification), biophysical hazards (frost, heat waves, epidemics, forest fires), geological hazards (landslides, snow avalanches), tectonic hazards (earthquakes, volcanoes), and technological hazards.

This is a valuable handbook for students, researchers and professionals of environmental science, environmental economics and management, and engineering.

February 2017 • 560 pages • Paperback

ISBN: 9781780407128

Ebook ISBN: 9781780407135

Non Members Price: £ 145.00 / US\$ 181.00 / € 218.00

IWA Members Price: £ 109.00 / US\$ 136.00 / € 164.00

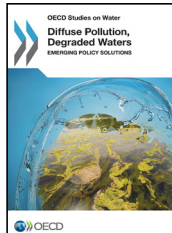
Student Price: £ 66.00 / US\$ 83.00 / € 99.00

Water Resources & Environment

Diffuse Pollution, Degraded Waters

Emerging Policy Solutions

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



After decades of regulation and investment to reduce point source water pollution, OECD countries still face water quality challenges (e.g. eutrophication) from diffuse agricultural and urban sources of pollution, that is disperse pollution from surface runoff, soil filtration and atmospheric deposition. The relative lack of progress reflects the complexities of controlling multiple

pollutants from multiple sources, their high spatial and temporal variability, associated transactions costs, and limited political acceptability of regulatory measures. This report outlines the water quality challenges facing OECD countries today, presents a range of policy instruments and innovative case studies of diffuse pollution control, and concludes with an integrated policy framework to tackle diffuse water pollution. An optimal approach will likely entail a mix of policy interventions reflecting the basic OECD principles of water quality management – pollution prevention, treatment at source, the polluter pays and beneficiary pays principles, equity, and policy coherence.

This title belongs to the OECD Report Series

June 2017 • 120 pages • Paperback

ISBN: 9781780408781

Ebook ISBN: 9781780408798

Non Members Price: £ 18.00 / US\$ 24.00 / € 32.00

IWA Members Price: £ 14.00 / US\$ 19.00 / € 25.00

Water Resources & Environment

Organic Waste Recycling

Technology, Management and Sustainability

Fourth edition

Authors: Chongrak Polprasert and Thammarat Koottatep



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

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

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

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

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

June 2017 • 600 pages • Paperback

ISBN: 9781780408200

Ebook ISBN: 9781780408217

Non Members Price: £ 89.00 / US\$ 111.00 / € 134.00

IWA Members Price: £ 67.00 / US\$ 84.00 / € 101.00

Water Resources & Environment

The Ocean Economy in 2030

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



This report explores the growth prospects for the ocean economy, its capacity for future employment creation and innovation, and its role in addressing global challenges. Special attention is devoted to the emerging ocean-based industries in light of their high growth and innovation potential, and contribution to addressing challenges such as energy security,

environment, climate change and food security. The report examines the risks and uncertainties surrounding the future development of ocean industries, the innovations required in science and technology to support their progress, their potential contribution to green growth and some of the implications for ocean management. Finally, and looking across the future ocean economy as a whole, it explores possible avenues for action that could boost its long-term development prospects while managing the use of the ocean itself in responsible, sustainable ways.

This title belongs to the OECD Report Series

July 2017 • 256 pages • Paperback

ISBN: 9781780408910

Ebook ISBN: 9781780408927

Non Members Price: £ 25.00 / US\$ 31.00 / € 38.00

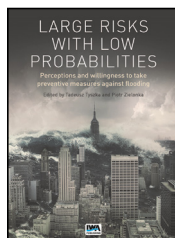
IWA Members Price: £ 19.00 / US\$ 24.00 / € 29.00

Water Resources & Environment

Large Risks with Low Probabilities

Perceptions and willingness to take preventive measures against flooding

Editors: Tadeusz Tyszka and Piotr Zielonka



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

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

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

August 2017 • 250 pages • Hardback

ISBN: 9781780408590

Ebook ISBN: 9781780408606

Non Members Price: £ 95.00 / US\$ 119.00 / € 143.00

IWA Members Price: £ 72.00 / US\$ 90.00 / € 108.00

OPEN ACCESS

WITH
IWA PUBLISHING



GLOBAL
DISSEMINATION
OF RESEARCH



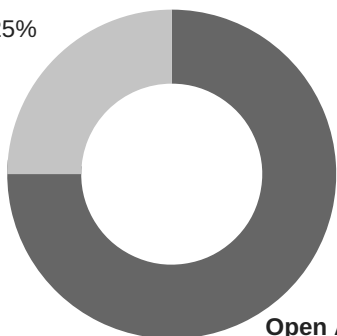
HIGHER
CITATION
RATES

COMPLIANT
WITH FUNDING
MANDATES



PRACTITIONERS
CAN APPLY
YOUR WORK

25%



Open Access
75%

2017 MOST-READ
PAPERS

OPEN ACCESS

HIGHLIGHTS FROM 2017



2 JOURNALS NOW FULLY OPEN ACCESS

Journal of Water Reuse and Desalination
H₂Open Journal

165 OPEN ACCESS PAPERS
PUBLISHED

33x more downloads than non-OA papers



31 FREE-TO-READ BOOKS

All available on OAPEN or iwaponline.com

Publish Open Access in any of our 13 journals

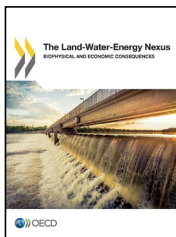
iwapublishing.com/iwa-publishing-open-access | @IWAP_OA

Water Resources & Environment

The Land-Water-Energy Nexus

Biophysical and Economic Consequences

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



This report contributes to the discussion of interconnections between scarce resources by highlighting the nexus between land, water and energy (the LWE nexus). It focuses on a dynamic, integrated, and disaggregated analysis of how land, water and energy interact in the biophysical and economic systems. The report provides projections for the

biophysical and economic consequences of nexus bottlenecks until 2060, highlighting that while the LWE nexus is essentially local, there can be significant large-scale repercussions in vulnerable regions, notably on forest cover and in terms of food and water security.

The analysis is based on coupling a gridded biophysical systems model with a multi-regional, multi-sectoral dynamic general equilibrium modelling assessment. Numerical insights are provided by investigating a carefully selected set of scenarios that are designed to illustrate the key bottlenecks: one scenario for each resource bottleneck, plus two scenarios that combine all bottlenecks, with and without an overlay of climate change.

This title belongs to the OECD Report Series

November 2017 • 140 pages • Paperback

ISBN: 9781780409276

Ebook ISBN: 9781780409283

Non Members Price: £ 19.00 / US\$ 24.00 / € 29.00

IWA Members Price: £ 15.00 / US\$ 19.00 / € 23.00

Water Resources & Environment

Treatment Wetlands

Authors: Gabriela Dotro, Guenter Langergraber, Pascal Molle, Jaime Nivala, Jaume Puigagut, Otto Stein and Marcos Von Sperling



Treatment Wetlands is the seventh volume in the Biological Wastewater Treatment series, which gives a state-of-the-art presentation of the science and technology of sewage treatment. The major variants of wetland systems are covered in this volume, namely: (i) horizontal flow

wetlands; (ii) vertical flow wetlands; (iii) French vertical flow wetlands; (iv) intensified wetlands; (v) free water surface wetlands; (vi) other applications of treatment wetlands. The book presents in a clear and didactic way the main concepts, working principles, expected performance, design criteria, design examples, construction aspects and operational guidelines. The book has been written by an international team of top experts in the field of treatment wetlands.

This title belongs to the Biological Wastewater Treatment Series

Available as a free Open Access ebook

November 2017 • 160 pages • Paperback

ISBN: 9781780408767

Ebook ISBN: 9781780408774

Non Members Price: £ 85.00 / US\$ 115.00 / € 153.00

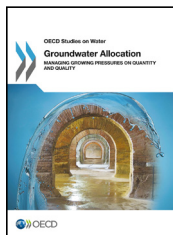
IWA Members Price: £ 64.00 / US\$ 86.00 / € 115.00

Water Resources & Environment

Groundwater Allocation

Managing Growing Pressures on Quantity and Quality

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



Groundwater allocation determines who is able to use groundwater resources, how, when and where. It directly affects the value (economic, ecological, socio-cultural) that individuals and society obtain from groundwater, today and in the future. Building on the 2015 OECD publication *Water Resources Allocation: Sharing Risks and Opportunities*, this report focuses

on groundwater and how its allocation can be improved in terms of economic efficiency, environmental effectiveness and social equity. Drawing on an analysis of groundwater's distinctive features and nine case studies of groundwater allocation in a range of countries, the report provides practical policy guidance for groundwater allocation in the form of a "health check". This health check can be used to assess the performance of current arrangements and manage the transition towards improved allocation.

This title belongs to the OECD Report Series

December 2017 • 116 pages • Paperback

ISBN: 9781780409405

Ebook ISBN: 9781780409412

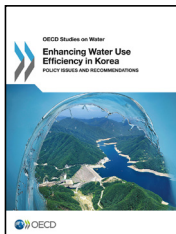
Non Members Price: £ 19.00 / US\$ 24.00 / € 29.00

IWA Members Price: £ 15.00 / US\$ 19.00 / € 23.00

Water Resources & Environment

Enhancing Water Use Efficiency in Korea

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



The report, building on a policy dialogue with a range of stakeholders in Korea, analyses how economic policy instruments under the responsibility of the Korean Ministry of Land, Infrastructure and Transport can be adjusted to contribute to water policy objectives. It also investigates how Smart Water Management Korea, an initiative by K-water that combines information and communication technology with water technology, can be harnessed to better contribute to water management in the country. Finally, it identifies some of the limitations of prevalent water allocation regimes which need to be addressed to make the best use of available water resources.

Since 1965, the Korean Government has invested heavily in quantitative development strategies to meet water needs, and despite highly variable water availability, this has allowed for and facilitated rapid urbanisation and economic growth. However, several long-term trends are expected to affect the capacity of the current water management system to adequately respond to current and future water risks, such as rapid ageing of the population, fiscal consolidation and climate change. These call for a renewed emphasis on water use efficiency.

This title belongs to the OECD Report Series

December 2017 • 136 pages • Paperback

ISBN: 9781780409382

Ebook ISBN: 9781780409399

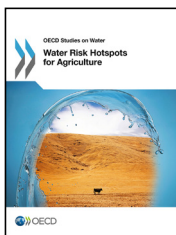
Non Members Price: £ 19.00 / US\$ 24.00 / € 29.00

IWA Members Price: £ 15.00 / US\$ 19.00 / € 23.00

Water Resources & Environment

Water Risk Hotspots for Agriculture

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



Agriculture is expected to face increasing water risks that will impact production, markets, trade and food security - risks that can be mitigated with targeted policy actions on water hotspots. This report develops the hotspot approach, provides an application at the global scale, and presents a mitigation policy action plan. The People's Republic of China, India and the United States are identified as countries facing

the greatest water risks for agriculture production globally.

A global simulation shows that, in the absence of action, water risks in Northeast China, Northwest India and the Southwest United States in particular could have significant production, price and trade consequences. Agriculture water risks could also result in broader socio-economic and food security concerns. Farmers, agro food companies, and governments can all play a role in responding to water risks at hotspot locations. A three-tier policy action plan is proposed to confront water risk hotspots, encompassing targeted responses, adapted national policies, strengthened market integration and international collaboration.

This title belongs to the OECD Report Series

December 2017 • 196 pages • Paperback

ISBN: 9781780409368

Ebook ISBN: 9781780409375

Non Members Price: £ 32.00 / US\$ 40.00 / € 48.00

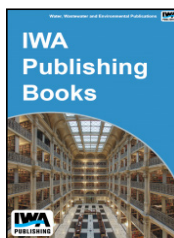
IWA Members Price: £ 24.00 / US\$ 30.00 / € 36.00

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 Vaneekhaute



Throughout history, the first and foremost role of urban water management has been the protection human health and the local aquatic environment. To this end, the practice of (waste-)water treatment has maintained a central focus on the removal of pollutants through dissipative pathways. Approaches like – in case of wastewater treatment – the

activated sludge process, which make 'hazardous things' disappear, have benefitted our society tremendously by safeguarding human and environmental health. While conventional (waste-)water treatment is regarded as one of the greatest engineering achievements of the 20th century, these dissipative approaches will not suffice in the 21st century as we enter the era of the circular economy. 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 (how much is there, really); (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.

February 2019 • 400 pages • Paperback

ISBN: 9781780409559

Ebook ISBN: 9781780409566

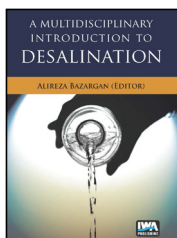
Non Members Price: £ 99.00 / US\$ 149.00 / € 124.00

IWA Members Price: £ 74.00 / US\$ 111.00 / € 93.00

Water Supply & Treatment

A Multidisciplinary Introduction to Desalination

Editor: Alireza Bazargan



Although more than 70% of the globe is covered with water, only a small portion is suitable for direct human use, making the scarcity of freshwater one of our planet's most serious challenges. In this context "desalination", defined as "the removal of salt from water", is one of the possible solutions for overcoming our planet's municipal and industrial thirst.

By drawing upon the authoritative expertise of a remarkable team of international authors, this book aims to provide an encompassing and "multidisciplinary" introduction to various aspects of desalination. The forte of this publication is that it does not overtly focus on a particular sub-topic of desalination, but rather addresses the topic as a whole. In other words, the unique assortment of reader-friendly chapters is designed to strike a delicate balance between the technical and non-technical.

The book is divided into five general sections:

- The first section presents an overview of water scarcity, followed by a review of integrated water management and the alternatives to desalination. The fundamentals of desalination are provided, including simple water chemistry
- The second section covers the conventional technologies of today, including thermal and membrane desalination processes. The topics of pre- and post- treatment are given due credit, as no desalination plant can operate without them
- The third section reviews the history of how desalination technologies originated, including a review of today's R&D activities and cutting edge research. The processes and engineering applied for membrane manufacturing are also presented
- Section four is concerned with energy and environmental issues, including the application of renewable and nuclear energy, minimization of energy usage and the water-energy-nexus, brine management, and environmental impacts
- Finally, section five covers the social and commercial issues, ranging from rural desalination, to the politics of desalination. Desalination costs and feasibility are presented, as well as issues in business development and the future market prospects.

Effectively, *A Multidisciplinary Introduction to Desalination* aims to be a holistic go-to-compedium for anyone seeking a balanced understanding of the various facets of desalination.

February 2018 • 350 pages • Hardback

ISBN: 9781780409153

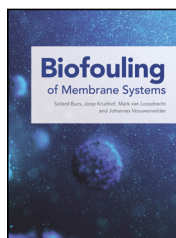
Non Members Price: £ 52.00 / US\$ 65.00 / € 78.00

IWA Members Price: £ 39.00 / US\$ 49.00 / € 59.00

Water Supply & Treatment

Biofouling of Membrane Systems

Authors: Szilárd Bucs, Johannes Vrouwenvelder, Mark van Loosdrecht and Joop Kruithof



Because of the uneven distribution of fresh water in time and space and the increasing human population, a large number of regions are experiencing water scarcity and stress. Membrane-based desalination technologies like reverse osmosis have the potential to solve the fresh water crisis in coastal areas. However, in many cases membrane performance is restricted by biofouling.

Biofouling of Membrane Systems gives a comprehensive overview on the state-of-the-art strategies to control biofouling in spiral wound reverse osmosis membrane systems and point to possible future research directions. Despite the fact that much research and development has been done to overcome biofouling in spiral wound membrane systems used for water treatment, biofouling is still a major practical problem causing performance decline and increased energy demand. This book is divided into three sections including: hydrodynamics and its impact on spiral wound module design and performance; non-destructive on-line, in-situ biofilm characterization and feed spacer geometry optimization; and system operation. It focuses on the development of biomass in the feed channel of the membrane module and its effect on pressure drop and hydrodynamics. The book can be used to develop an integral strategy to control biofouling in spiral wound membrane systems. An overview of several potential complementary approaches to solve biofouling is given and an integrated approach for biofouling control and feed spacer design is proposed.

September 2018 • 350 pages • Paperback

ISBN: 9781780409580

Ebook ISBN: 9781780409597

Non Members Price: £ 125.00 / US\$ 156.00 / € 188.00

IWA Members Price: £ 94.00 / US\$ 118.00 / € 141.00

Fit in Wastewater Technology?

Self-learning material for wastewater engineering technicians

Book or E-Book Practical and Comprehensible

The book contains conventional more than 400 questions:

- multiple-choice questions
- questions related to situations for the better understanding of processes
- expedition questions to apply the theory to the practical work on a wastewater treatment plant
- questions for reflection which should be discussed and solved with a trainer.



29,50 €

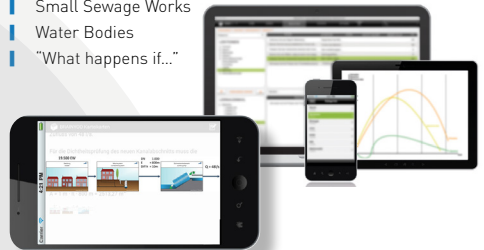
Revised Edition 2016, Softcover, spiral binding,
21x29.7 cm, 111 pages
E-Book ISBN: 978-3-88721-330-5
Print ISBN: 978-3-88721-247-6
purchase via DWA online shop, en.dwa.de

Learning Software Simply learn everywhere

Whether in school or university, for the job or simply just continuing your learning – the Brainyoo Learning System with 'Fit in Wastewater Technology?' is the perfect companion for all those who are active learners. Location independent, multimedia and through self-created digital flash cards and multimedia learning content perfectly positioned for your own learning goals.

More than 400 questions and answers to

- Municipal Sewerage
- Private Sewerage
- Sewerage Systems
- Wastewater Treatment Plants
- Biological Wastewater Treatment
- Mechanical Wastewater Treatment
- Sludge Treatment
- Small Sewage Works
- Water Bodies
- "What happens if..."



22,95 €

for iOS & Android
purchase via online shop
of our partner Brainyoo
<https://www.brainyoo.com/shop/wastewater-technology.html>

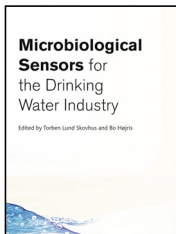


All prices incl. VAT plus mailing costs (book). Subject to price changes and errors.

Water Supply & Treatment

Microbiological Sensors for the Drinking Water Industry

Editors: Torben Lund Skovhus and Bo Højris



This most up-to date book addresses the interdisciplinary area of drinking water quality monitoring by microbiological sensors. It is edited and written by leading water professionals and experts, and binds together interests and competences within sensing technology, system behavior, business needs, legislation, education, data handling, and

intelligent response algorithms. It contains chapters on:

- The history of water monitoring and early sensors
- The current landscape of microbiological sensors and different measuring concepts
- Needs from the water industry
- Detailed description of several state-of-the-art sensor technologies
- Water industry case stories with operator experience
- Examples of on-line data collection and data handling
- Microbiological sensors applied in education and industry workshops
- Regulator aspects of introducing microbiological sensors.

It is the hope that the book will be widely used by water utility managers, technical staff working with drinking water safety, educators in the field of water quality and regulators in this field worldwide. Furthermore, that it will help bridge the gaps between these diverse and otherwise differently oriented water professionals.

October 2018 • 270 pages • Hardback

ISBN: 9781780408682

Ebook ISBN: 9781780408699

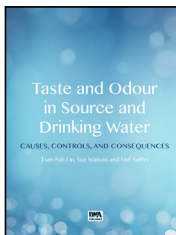
Non Members Price: £ 95.00 / US\$ 143.00 / € 119.00

IWA Members Price: £ 71.00 / US\$ 107.00 / € 89.00

Water Supply & Treatment

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

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



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

management of aquatic T&O problems. The material provides new knowledge for an increasing widespread degradation of source waters and global demand for high quality potable water. Key topics include early warning,

detection and source-tracking, chemical, sensory and molecular diagnosis, treatment options for common odorants and minerals, source management, modelling and risk assessment, and future research directions.

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

November 2018 • 250 pages • Paperback

ISBN: 9781780406657

Ebook ISBN: 9781780406664

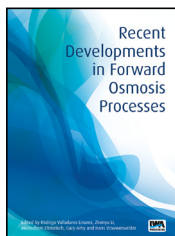
Non Members Price: £ 95.00 / US\$ 119.00 / € 143.00

IWA Members Price: £ 72.00 / US\$ 90.00 / € 108.00

Water Supply & Treatment

Recent Developments in Forward Osmosis Processes

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



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

Recent Developments in Forward Osmosis Processes provides an overview of applications, advantages, challenges, costs and

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

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

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

May 2017 • 404 pages • Paperback

ISBN: 9781780408118

Ebook ISBN: 9781780408125

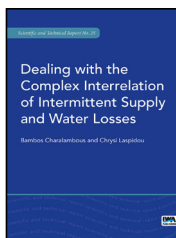
Non Members Price: £ 95.00 / US\$ 119.00 / € 143.00

IWA Members Price: £ 71.00 / US\$ 89.00 / € 107.00

Water Supply & Treatment

Dealing with the Complex Interrelation of Intermittent Supply and Water Losses

Authors: Bambos Charalambous and Chrysi Laspidou



The book provides a scientific approach into appraising Intermittent Water Supply (IWS) on a global scale through the analysis of available information and data based on a structured methodology for estimating the population affected by IWS worldwide both by country and by geographical regions. The root causes and the implications of IWS are dealt with in

a concise manner providing a detailed account of the reasons for resistance to change towards 24x7 supply. A major contribution of the book is in providing an understanding of water losses in the context of IWS as well as the related difficulties in leakage detection and metering under such conditions. A methodology is presented for transitioning from IWS to continuous supply covering technical, social and communication issues which are considered of paramount importance for a successful transition. Relevant case studies from across the globe are included in the book to provide evidence based information and data relating to the many and diverse challenges faced daily by water utilities operating their networks under IWS.

August 2017 • 162 pages • Paperback

ISBN: 9781780407067

Ebook ISBN: 9781780407074

Non Members Price: £ 85.00 / US\$ 106.00 / € 128.00

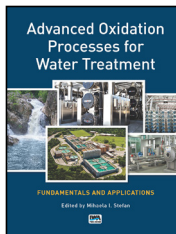
IWA Members Price: £ 64.00 / US\$ 80.00 / € 96.00

Water Supply & Treatment

Advanced Oxidation Processes for Water Treatment

Fundamentals and Applications

Editor: Mihaela I. Stefan



Advanced Oxidation Processes (AOPs) rely on the efficient generation of reactive radical species and are increasingly attractive options for water remediation from a wide variety of organic micropollutants of human health and/or environmental concern.

This book covers the key AOPs developed for chemical contaminant destruction in polluted water sources, some of which have been implemented successfully around the world. The first part is dedicated to the most relevant AOPs, whereas the second includes the photochemistry of chemical

contaminants in the aquatic environment, advanced water treatment for reuse, implementation of advanced treatment processes for drinking water at a state-of-the-art treatment plant in Europe, advanced treatment of municipal and industrial wastewater, and green technologies for water remediation. The book covers:

- Process principles including the most recent scientific findings and interpretation
- Classes of compounds suitable to AOP treatment and examples of reaction mechanisms
- Chemical and photochemical degradation kinetics and modelling
- Water quality impact on process performance and practical considerations on process parameter selection criteria
- Process limitations and byproduct formation and strategies to mitigate any potential adverse effects on the treated water quality
- AOP equipment design and economics considerations
- Research studies and outcomes
- Case studies relevant to process implementation to water treatment
- Commercial applications
- Future research needs.

September 2017 • 710 pages • Paperback

ISBN: 9781780407180

Ebook ISBN: 9781780407197

Non Members Price: £ 145.00 / US\$ 181.00 / € 218.00

IWA Members Price: £ 109.00 / US\$ 136.00 / € 164.00

New Translations

Gestion des Boues de Vidange

Approche intégrée pour la mise en œuvre et l'exploitation*New French Translation*

Éditeurs: Linda Strande, Mariska Ronteltap et Damir Brdjanovic



Dans d'un milliard de personnes dans les zones urbaines et périurbaines d'Afrique, d'Asie et d'Amérique latine sont desservies par des dispositifs d'assainissement à la parcelle. La gestion des boues extraites de ces dispositifs, les « boues de vidange », a été jusqu'à présent grandement négligée. Les ressources financières sont souvent insuffisantes et les dispositifs d'assainissement à la parcelle ont tendance à être considérés comme des solutions temporaires, dans l'attente de la mise en place de réseaux d'égouts. Cependant, force est de constater que l'assainissement à la parcelle est là pour durer, soit en tant que solution autonome permanente, soit en association avec des systèmes égouts-station. La gestion adéquate des boues de vidange issues des dispositifs d'assainissement des ménages est un impératif pour la protection de la santé humaine et de l'environnement.

Cet ouvrage est le premier à être consacré à la gestion des boues de vidange. Il rassemble l'état actuel des connaissances de ce domaine qui évolue rapidement, et propose une approche intégrée qui lie les composantes technologiques, organisationnelles et de planification. Il aborde la planification et l'organisation de l'ensemble de la filière de gestion des boues de vidange depuis la collecte et l'évacuation des boues jusqu'aux solutions de traitement et à l'utilisation finale ou la mise en dépôt des boues traitées. En plus de fournir des éléments fondamentaux sur le traitement et une description des technologies existantes, l'ouvrage présente en détail les aspects opérationnels, institutionnels et financiers. Il propose également une méthode de planification d'un projet de gestion des boues de vidange à l'échelle d'une ville avec l'ensemble des parties prenantes.

Available as a free Open Access ebook

April 2018 • 468 pages • Paperback

ISBN: 9781780409795

Ebook ISBN: 9781780409801

Non Members Price: £ 75.00 / US\$ 94.00 / € 113.00

IWA Members Price: £ 57.00 / US\$ 71.00 / € 86.00

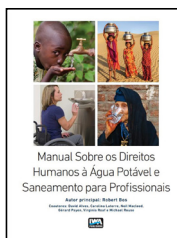
New Translations

Manual Sobre os Direitos Humanos à Água Potável e Saneamento para Profissionais

New Portuguese Translation

Autor principal: Robert Bos, Conselheiro Senior, IWA, Haia, Holanda

Coautores: David Alves, Carolina Latorre, Neil Macleod, Gérard Payen, Virginia Roaf e Michael Rouse



Este Manual coloca em destaque os princípios e critérios dos direitos humanos sobre água potável e saneamento, traduzindo as obrigações legais a nível internacional em termos práticos e de operacionalização das políticas que devem suportar a realização progressiva do acesso universal. O Manual introduz uma perspectiva de direitos humanos que visa

acrescentar valor a processos de tomada de decisão no dia-a-dia dos prestadores dos serviços de águas e das entidades reguladoras. O Manual encoraja os leitores a participarem ativamente nos processos que têm lugar nos respetivos Países com vista a transpor os direitos humanos à água potável e ao saneamento para as políticas nacionais e locais, leis e regulamentos. A criação de um ambiente propício é, na verdade, apenas o primeiro passo para a realização progressiva destes direitos. O passo seguinte é a atribuição clara de responsabilidades, num enquadramento institucional e operacional atualizado que promova a análise e a revisão das funções essenciais dos prestadores de serviços e das entidades reguladoras à luz dos direitos humanos.

Available as a free Open Access ebook

August 2017 • 120 pages • Paperback

ISBN: 9781780408965

Ebook ISBN: 9781780408750

Non Members Price: £ 75.00 / US\$ 94.00 / € 113.00

IWA Members Price: £ 57.00 / US\$ 71.00 / € 86.00

New Translations

Tratamiento biológico de aguas residuales

Principios, modelación y diseño

New Spanish Translation

Editores de la versión en español: Carlos M. López Vázquez, Germán Buitrón Méndez, Hector A. García y Francisco J. Cervantes Carrillo



El conocimiento y entendimiento del tratamiento de aguas residuales ha avanzado extensamente evolucionando de enfoques basados en procedimientos meramente empíricos a enfoques con principios básicos que abarcan la química, microbiología, física, ingeniería de procesos y matemáticas. Para una nueva generación de jóvenes científicos e ingenieros que ingresan al área del tratamiento de aguas residuales, la cantidad, complejidad y diversidad de estos nuevos desarrollos puede ser abrumador, particularmente en países en vías de desarrollo donde no existe un fácil acceso a cursos avanzados de postgrado. Este libro tiene como objetivo resolver esta deficiencia ya que compila e integra el material de diversos cursos de postgrado de más de una docena de grupos de investigación de todo el mundo que han hecho contribuciones significativas para el desarrollo del tratamiento de aguas residuales.

La edición en inglés forma parte de un plan de estudios que incluye:

- Resúmenes de las presentaciones y clases de los temas cubiertos en el libro
- Videos de las clases de los profesores
- Eautores de los capítulos del libro ejercicios de auto-aprendizaje para los participantes en los cursos.

Available as a free Open Access ebook

December 2017 • 580 pages • Hardback

ISBN: 9781780409139

Ebook ISBN: 9781780409146

Non Members Price: £ 123.00 / US\$ 154.00 / € 185.00

IWA Members Price: £ 93.00 / US\$ 116.00 / € 140.00

DWA Set of Rules

English Version on CD-ROM

This CD-ROM contains english translations of significant publications of the German DWA Set of Rules. The DWA Set of Rules consists of Standards and Guidelines. Standards contain the generally accepted rules of technology. Guidelines describe the state of the art. Furthermore there are DWA-Topics which present elementary results from the honorary work of the DWA specialists groups.

DWA-Publications are viewed as the basis for planning, construction, improving and operation of plants in water, wastewater and waste management, as well as in soil conservation.

The CD-ROM contains 52 Standards and Guidelines, 6 Topics and various brochures in pdf format.

Exemplary issues

- Drain and Sewer Systems
Hydraulic Calculations, Pipe Jacking, Stormwater, Inspection, Operating Instructions, ...
- Municipal Wastewater Treatment
Activated Sludge, Biologically Treated Wastewater, Emission Reduction, ...
- Waste and Sewage Sludge
Biogas, Sludge Thickening, Biological Stabilisation, ...
- Industrial Wastewater
Water Reuse, Wastewater Analysis, ...
- Hydraulic Engineering
Fish protection, Tailing Impoundment, ...
- Economics
Quality Management Systems, Benchmarking, Cost Structures, ...
- PR
numerous brochures, ...



Update **298,00 €/238,40 €*
129,00 €/103,20 €*
298,00 €/238,40 €*
129,00 €/103,20 €***

**Includes the new Standard DWA-A 216E
„Energy Check and Energy Analysis –
Instruments to Optimise the Energy Usage of
Wastewater Systems“**

The prices include the VAT plus shipping. Prices are subject to alteration and no responsibility is accepted for errors.

* Reduced Price for DWA Corporate Members.

Fax: +49 2242 872-100

Yes, I would like to order

..... **CD-ROM DWA Set of Rules**

..... **CD-ROM Update**

Method of Payment

bank transfer • by credit card: Visa Mastercard

Card No.	Valid until
CVC-Card validation code	Date/Signature

German Association for Water, Wastewater and Waste (DWA)

Customer Service
Theodor-Heuss-Allee 17
53773 Hennef
Germany

Surname/First name	
Firm/Authority	
Street	
Town/Country/Postcode	
Telephone	
Number of Membership	e-mail
Date/Signature	

Yes, I would like to receive further information of DWA/GFA by e-mail.

Now available from IWA Publishing

Research Reports from



Water Environment Research Foundation Reports

The Water Environment Research Foundation, a not-for-profit organisation, funds and manages water quality research for its subscribers through a diverse public-private partnership between municipal utilities, corporations, academia, industry and the federal government. WERF is dedicated to advancing science and technology addressing water quality issues as they impact water resources, the atmosphere, the lands, and quality of life.

To view the print and online prices of these reports see the individual entries within the catalogue, or visit our website.

ORDERING IS EASY!



POST UK/Europe/Rest of World

Turpin Distribution Ltd
Pegasus Drive, Stratton Business Park,
Biggleswade
Bedfordshire, SG18 8TQ, United Kingdom

North America

IWA Publishing,
c/o BookMasters, Inc.
30 Amberwood Parkway
Ashland, Ohio, 44805, USA



PHONE UK/Europe/Rest of World

+44 (0)1767 604951

North America

+1 800 247 6553/
+1 800 266 5564/
+1 419 281 1802 from Canada



FAX UK/Europe/Rest of World

+44 (0)1767 601640

North America

+1 419 281 6883



EMAIL UK/Europe/Rest of World

iwap@turpin-distribution.com

North America

order@bookmasters.com



To access these reports online visit: wio.iwaponline.com

We're all about water...

The International Water Association (IWA) is the global network of water professionals, spanning research and practice and covering all facets of the water cycle.

Become an IWA Member and benefit from the:



global network – connect and interact with over 10,000 peers and water professionals around the globe

CONNECT

specialist groups – share views and expand your knowledge on specific subjects of interest through different member-led initiatives and groups



publications – remain ahead of the latest advances in your field through world-leading journals and information resources on water and wastewater research and practice

COLLABORATE

events – exchange information and ideas with colleagues and leaders from all over the world at the IWA World Water Congress & Exhibition and other leading-edge speciality and regional conferences on water and wastewater technology from all over the world

BENEFIT



members discount – save money on IWA events registration and on IWA Publishing products

INSPIRE CHANGE

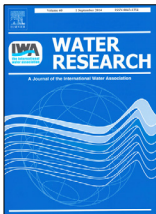
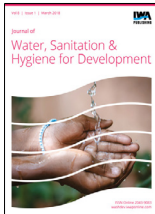
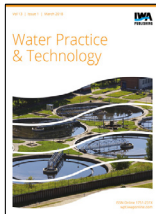
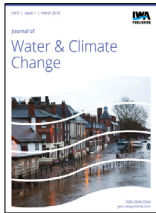
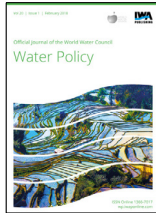
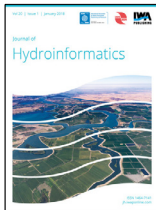
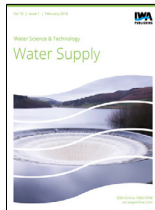
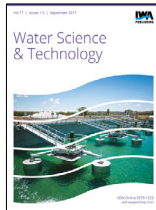
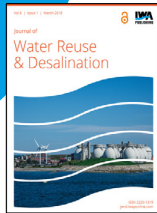
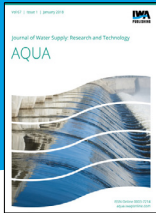
For further information and to join visit www.iwa-network.org

International Water Association, Alliance House,
12 Caxton Street, London, SW1H 0QS

Tel: +44 (0)207 654 5500 **Fax:** +44 (0)207 654 5555

Email: members@iwahq.org

JOURNALS



WATER, SCIENCE & TECHNOLOGY

ISSN: 0273-1223; Vols. 77-78, 24 issues, 2018
Institutional rate (print and online access):
£ 6,090 / US\$ 11,200 / € 9,379

WATER SCIENCE & TECHNOLOGY: WATER SUPPLY

ISSN: 1606-9749; Vol. 18, 6 issues, 2018
Institutional rate (print and online access):
£ 2,494 / US\$ 4,415 / € 4,031

JOURNAL OF HYDROINFORMATICS

ISSN: 1464-7141; Vol. 20, 6 issues, 2018
Institutional rate (print and online access):
£ 1,542 / US\$ 2,730 / € 2,405

WATER QUALITY RESEARCH JOURNAL

ISSN: 1201-3080; Vol. 53, 4 issues, 2018
Institutional rate (print and online access):
£ 601 / US\$ 929 / € 901

JOURNAL OF WATER SUPPLY: RESEARCH & TECHNOLOGY - AQUA

ISSN: 0003-7214; Vol. 67, 8 issues, 2018
Institutional rate (print and online access):
£ 1,000 / US\$ 1,712 / € 1,445

JOURNAL OF WATER REUSE & DESALINATION

ISSN: 2220-1319; Vol. 8, 4 issues, 2018
Now available online as Open Access
Institutional rate (print and online access):
£ 938 / US\$ 1,484 / € 1,175

WATER POLICY

ISSN: 1366-7017; Vol. 20, 6 issues, 2018
Institutional rate (print and online access):
£ 1,204 / US\$ 2,340 / € 1,892

HYDROLOGY RESEARCH

ISSN: 0029-1277; Vol. 49, 6 issues, 2018
Institutional rate (print and online access):
£ 1,664 / US\$ 2,854 / € 2,496

JOURNAL OF WATER & CLIMATE CHANGE

ISSN: 2040-2244; Vol. 9, 4 issues, 2018
Institutional rate (print and online access):
£ 1,055 / US\$ 1,669 / € 1,322

JOURNAL OF WATER & HEALTH

ISSN: 1477-8920; Vol. 16, 6 issues, 2018
Institutional rate (print and online access):
£ 1,369 / US\$ 2,475 / € 2,019

WATER PRACTICE & TECHNOLOGY

ISSN (Online): 1751-231X; Vol. 13, 2018
Institutional Rate (online only access):
£ 292 / US\$ 552 / € 423

JOURNAL OF WATER, SANITATION & HYGIENE FOR DEVELOPMENT

ISSN: 2043-9083; Vol. 8, 4 issues, 2018
Institutional rate (print and online access):
£ 1,157 / US\$ 1,911 / € 1,450

WATER RESEARCH

ISSN: 0043-1354; 20 issues, 2018
Contact Elsevier Science to subscribe:
+31 20 485 3757 / ninfo-f@elsevier.com

IWA JOURNALS ONLINE

Institutions

All journals are available online. Access is granted as part of your subscription – just register your IP address at iwaponline.com

Individual IWA Members

Please contact IWA Membership:
members@iwahq.org

Corporate IWA Members

Contact Ian Morgan at imorgan@iwap.co.uk to get an online access quote

Journal Subscription Package Special Discount

For one site licence, access to all journals excluding *Water Research*
Print and online combined price:
£ 15,526 / US\$ 27,417 / € 23,150
Additional online access available at extra cost – contact IWAP for details

SUBSCRIBE

Mail: Turpin Distribution Ltd
Pegasus Drive
Stratton Business Park
Biggleswade
Bedfordshire
SG18 8TQ
United Kingdom
Tel: +44 (0)1767 604951
Fax: +44 (0)1767 601640
E-mail: iwap@turpin-distribution.com

IWAPUBLISHING.COM

IWA Publishing - Key contacts

Managing Director: Rod Cookson - rod.cookson@iwap.co.uk
Sales Manager: Ian Morgan - imorgan@iwap.co.uk
Marketing & Digital Development Manager: Margarita Lygizou - mlygizou@iwap.co.uk
Marketing & Communications Assistant: Sarah Cooper - scooper@iwap.co.uk
Books Commissioning Editor: Mark Hammond - mhammond@iwap.co.uk
Production Editor: Niall Cunniffe - ncunniffe@iwap.co.uk
Publishing Manager: Emma Gulseven - egulseven@iwap.co.uk
Managing Editor (Journals): Michelle Herbert - mherbert@iwap.co.uk
Editorial Assistant (Journals): Emma Buckingham - ebuckingham@iwap.co.uk
Open Access Publisher: Sara Bosshart - sbosshart@iwap.co.uk
Insights & Bibliometrics Analyst: Jim Eisenberg - jeisenberg@iwap.co.uk

IWA Publishing
Alliance House
12 Caxton St.
London
SW1H 0QS, UK
Tel: +44 (0)20 7654 5500
Fax: +44 (0)20 7654 5555
Email: publications@iwap.co.uk



Follow us at [@IWAPublishing](https://twitter.com/IWAPublishing)



Join us at [IWAPublishing](https://www.linkedin.com/company/iwapublishing)

