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<th>Collection Systems</th>
<th>Member $</th>
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<td>Alternative Sewer Systems, MOP FD-12, 2nd Edition</td>
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<td>Basic Laboratory Procedures for the Operator–Analyst</td>
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<td>Activated Sludge, MOP OM-9, 2nd Edition</td>
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<td>Activated Sludge Process Control Training Manual</td>
</tr>
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<td>Operation of Municipal Wastewater Treatment Plants Manual and Study Guide</td>
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<tr>
<td>Solids Handling Training Manual</td>
</tr>
<tr>
<td>Wastewater Solids Incineration Systems, MOP 30</td>
</tr>
<tr>
<td><strong>Modeling</strong></td>
</tr>
<tr>
<td>GIS Implementation for Water and Wastewater Treatment Facilities, MOP 26</td>
</tr>
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<td>Wastewater Treatment Process Modeling, MOP 31, 2nd Edition</td>
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<td><strong>Nutrients</strong></td>
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<td>Biofilm Reactors, MOP 35</td>
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</tr>
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<td>Design of Municipal Wastewater Treatment Plants, MOP 8, 5th Edition</td>
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<td>Nutrient Removal, MOP 34</td>
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<td>Operation of Municipal Wastewater Treatment Plants Manual and Study Guide</td>
</tr>
<tr>
<td>Operation of Nutrient Removal Facilities, MOP 37</td>
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<td><strong>Odors &amp; Air Emissions</strong></td>
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### Category Indices

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### Water Supply & Management

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### Watershed Management

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WEF/ABC/C_EP Wastewater Operators’ Guide to Preparing for the Wastewater Examination
Wet Weather Design and Operation in Water Resource Recovery Facilities

Alphabetical Summary

Activated Sludge, MOP OM-9, 2nd Edition
Published by WEF, 2002
Order No. MM2023
Member/List Price $65/$85
Soft cover, 211 pages

This critical manual provides the most up-to-date information on process control including strategies for controlling the biomass inventory, energy use and energy-saving opportunities, procedures used for solving common operational problems, plus a new section on aerobic digestion.

Activated Sludge Process Control Training Manual
Published by WEF, 2001
Order No. E10002
Member/List Price $50/$70
Soft cover, 143 pages

This is a manual for self-paced study of activated sludge process control topics. The manual includes a process overview, equipment and facilities, safety considerations, sampling and analysis, process control, and troubleshooting topics. It contains helpful photos, schematics, and graphs as well as worked-out example calculations and periodic quizzes to check your progress.

Also Available in Spanish: Control del proceso de lodos activados, Manual de entrenamiento
Published by WEF, 2011
Order No. E110073
Member/List Price $50/$70
Soft Cover, 117 pages

Affordability of Wastewater Service
Published by WEF, 2007
Order No. P07016
Member/List Price $69/$85
Soft cover, 80 pages

In addition to tackling issues of how to define and measure affordability, who might be the primary targets for an assistance program, and what features might be included, this invaluable resource offers case studies from communities that have been leaders in implementing innovative affordability programs.

Alternative Sewer Systems, MOP FD-12, 2nd Edition
Published by WEF Press, 2008
Order No. WPM813
Member/List Price $86/$100
Hard cover, 300 pages

Pressure, vacuum, and effluent collection systems are alternatives to expensive gravity systems presently used in small or large communities and are an integral part of cluster or neighborhood systems. Updated to include the most current technology in the field, this is an essential reference for wastewater professionals searching for a complete understanding of the types of systems in use today.

Alternative Water Sources and Wastewater Management
Published by McGraw-Hill, 2012
Order No.: R140201
Member/List Price: $40/$50
Hard cover, 384 pages

This book presents a variety of innovative concepts that are being researched, developed, and implemented worldwide. Featuring detailed illustrations, an eight-page color insert, current examples, statistics, and calculations, this book provides the vital information needed to address the rapidly increasing global demand for clean water.
Alphabetical Summary

**Anaerobic Biotechnology & Odor/Corrosion Control for Municipalities & Industries**
Published by Archae Press, 2008
Order No. R091126
Member/List Price $120/$135
Hard cover, 585 pages

Written by R. E. Speece, this unique resource provides on-the-job training for water quality specialists seeking up-to-date answers for optimizing design and operation of municipal sludge digesters and industrial anaerobic treatment processes preventing odor and corrosion formation in collection and treatment systems.

Published by WEF, 2013
Order No. P130003
Member/List Price $124/$155
Soft cover, 663 pages

This manual will introduce you to the technological advancement and present you with the elements and standards of a complete automation design. Ideal for designers, utility managers, and operators.

**Basic Activated Sludge Process Control**
Published by WEF, 1994
Order No. E40089
Member/List Price $40/$50
Soft cover, 240 pages

This publication will teach operators the basic practices for controlling the performance of the activated sludge systems.

**Basic Laboratory Procedures for the Operator–Analyst**
Published by WEF, 2012
Order No. P120083
Member/List Price $72/$96
Soft cover, 432 pages

This publication includes laboratory procedures most often performed in wastewater laboratories and general wet chemistry procedures, activated sludge process control tests, bacteriological testing, and special sections about basic laboratory techniques and proper use of spectrophotometers and colorimetry.

**Biofilm Reactors, MOP 35**
Published by WEF Press, 2010
Order No. W100061
Member/List Price $115/$130
Hard cover, 604 pages

This resource offers complete coverage of pure fixed-film and hybrid treatment systems, along with details on their design, performance, and operational issues. Real-world case studies illustrate the application of the technologies presented in this authoritative volume.

**Biological Nutrient Removal (BNR) Operation Study Guide**
Published by WEF, ASCE, & EWRI, 2005
Order No. STG407
Member/List Price $38/$49
Soft cover, 110 pages

Operating a biological nutrient removal (BNR) process can be complex and requires a high level of operator involvement and knowledge. This study guide contains 100 problems and solutions, lists of conversion factors, an acronym list, and a glossary.

**Chlorination/Dechlorination Handbook**
Published by WEF, 2002
Order No. P12101
Member/List Price $60/$75
Soft cover, 208 pages

This all-inclusive book of chlorine-based chemicals is designed to help the wastewater professional apply the science of disinfection using the most up-to-date practices to ensure safety and control odors.

**Clarifier Design, MOP FD-8, 2nd Edition**
Published by WEF Press, 2005
Order No. WPM408
Member/List Price $131/$150
Hard cover, 704 pages

Contrasting traditional methods with the many leading-edge choices in clarifier design approaches, this Manual of Practice establishes criteria and protocols for decision-making. Its demystifying explanations will help everyone approach the process and its technologies with more understanding, confidence, and clarity.

**Climate Change and Water Resources**
Published by CRC Press, 2014
Order No.: R141105
Member/List Price: $120/$130
Hard Cover, 383 pages

The text presents a broad outline of the interrelated aspects of climate variations, climate change, and connections to water resources. Designed to help managers develop strategies, implement policies, and invest in infrastructure and information sources for integrated water resource management. It also includes adaptation options which are essential to water resource sustainability.

**Control of Infiltration and Inflow in Private Building Sewer Connections**
Published by WEF, 1999
Order No. P09104
Member/List Price $56/$75
Soft cover, 99 pages

This monograph focuses on private building sewer connections and helps system operators to better understand the effects of infiltration/inflow coming from them.

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Control of Odors and Emissions from Wastewater Treatment Plants, MOP 25
Published by WEF, 2004
Order No. MOP425
Member/List Price $69/$84
Soft cover, 523 pages

This manual addresses the characteristics and measurement of odor and toxic air emissions, regulations and policies, public health issues, emissions minimization from collection systems, containment and ventilation from treatment facilities, and techniques for communicating with the public.

Contemporary Technologies for Shale-Gas Water and Environmental Management
Published by WEF, 2012
Order No. P120003
Member/List Price $68/$85
Soft cover, 173 pages

Cutting edge gas-shale corporate developers, environmental researchers, and concerned municipality representatives present contemporary technical information and explore potential issues and concerns with gas-shale stakeholders. The publication focuses on related science and engineering technology and presents information on emerging technologies, case studies, and rational cautions for chemical and radiological adverse human and environmental interactions.

Desalination Engineering: Planning and Design
Published by WEF Press, 2013
Order No. W130001
Member/List Price $120/$150
Hard cover, 688 pages

Desalination Engineering: Planning and Design provides comprehensive information on the planning and engineering of brackish and seawater desalination projects for municipal water supplies. The book discusses basic principles, planning and environmental review of projects, design and selection of key desalination plant components, desalinated water posttreatment, and concentrate management.

Desalination Engineering: Operation and Maintenance
Published by WEF Press, 2014
Order No. W140001
Member/List Price $99/$125
Hard cover, 307 pages

Desalination Engineering: Operation and Maintenance describes state-of-the-art operation, maintenance, and troubleshooting methods for reverse osmosis brackish and seawater desalination plants for municipal water supplies. Real-world examples illustrating the latest technologies and their practical implementation are included throughout this authoritative resource.

Design of Urban Stormwater Controls, MOP 23
Published by WEF Press, 2012
Order No. W120001
Member/List Price $105/$130
Hard cover, 705 pages

This manual takes a holistic view and espouses the concept that systems of stormwater controls can be designed to meet the various objectives of stormwater management, including flood control; stream channel protection; groundwater recharge; water quality improvement; protection of public safety, health, and welfare; and multipurpose public benefits such as provision of open space, parks, playgrounds, trails, wildlife habitat, and enhancement of property values.

Emergency Planning, Response, and Recovery
Published by WEF, 2013
Order No. P130002
Member/List Price $79/$99
Soft cover, 283 pages

Emergency Planning, Response, and Recovery will help your utility develop an emergency response plan to recover from events such as infrastructure failure, small-scale, and large-scale natural disasters, and human-created incidents.

Energy Conservation in Water and Wastewater Treatment Facilities, MOP 32
Published by WEF Press, 2009
Order No. W090037
Member/List Price $115/$130
Hard cover, 400 pages

Covering water and wastewater treatment, this manual discusses principles and concepts of energy requirements, potential sources of inefficiency, and recommended energy conservation measures for specific equipment and processes. The manual addresses utility billing procedures and incentives as well as energy considerations for electric motors and transformers, pumps, variable controls, aeration systems, blowers, and solids processes.

Published by WEF, 2013
Order No. P130001
Member/List Price $44/$55
Soft cover, 148 pages

The Roadmap serves as a guide for utilities of all sizes on the path to sustainable energy management. In it you will explore innovative approaches to cost-effectively recover and reuse resources to transform "wastes" to valuable products. The book outlines six stops on the path to resource recovery presenting insights and models for: strategic management, creating an organizational culture, effective communication and outreach, demand-side management, energy generation, and innovating for the future.
Design of Municipal Wastewater Treatment Plants, MOP 8, 5th Edition

Published by WEF Press, 2009
Order No. W090035
Member/List Price $308/$350
Hard cover, 3034 pages

Online by the Chapter, www.wef.org/ShopWEF
Member/List Price per Chapter $22–$62/$28–$81

This globally renowned publication is the principal reference for contemporary plant design practices of wastewater engineering professionals, augmented by performance information from operating facilities. This 3000-page manual incorporates the collective experience of more than 300 practicing professionals, providing new information on membranes, energy conservation, enhanced nutrient-control systems, odor control, approaches to minimizing biosolids production, and more. Design examples also are provided to show how the guidelines and practice can be applied. This three-volume set includes:

Volume 1: Planning and Configuration of Wastewater Treatment Plants
Volume 2: Liquid Treatment Processes
Volume 3: Solids Processing and Management

WEF has developed electronic copies of each chapter that are available for purchase individually: download only those chapters specific to your needs.

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Environmental Engineering: Fundamentals, Sustainability, Design
Published by John Wiley & Sons, 2010
Order No. R090150
Member/List Price $139/$155
Hard cover, 695 pages

This book introduces the field of environmental engineering by engaging the reader in a comprehensive development of basic principles, as well as providing a strong focus on design for sustainability. Readers will have access to Web modules, which address a specific topic, such as water and wastewater treatment. The modules include rich content such as animations, audio, video, interactive problem-solving, and links to explorations.

Existing Sewer Evaluation and Rehabilitation, MOP FD-6, 3rd Edition
Published by WEF Press, 2009
Developed by WEF & ASCE
Order No. W090020
Member/List Price $86/$100
Hard cover, 327 pages

The new material in this manual will enable you to make the smartest decisions regarding infrastructure renewal. Topics covered include tools and procedures for pipe evaluation, infiltration and inflow problems and detection, rehabilitation materials and methods, and effective repair techniques.

Financing and Charges for Wastewater Systems, MOP 27
Published by WEF Press, 2004
Order No. WPM402
Member/List Price $76/$95
Hard cover, 300 pages

Focusing on issues of increasing urgency, this comprehensive Manual of Practice teaches the reader expert methods for handling all financial aspects of wastewater collection and treatment. The manual untangles the complexities involved in integrating the multiple considerations entailed in developing fair cost allocations and rates for service, and provides tested methods for confronting complicated decisions.

Gravity Sanitary Sewer Design and Construction, MOP FD-5, 2nd Edition
Published by ASCE & WEF, 2007
Order No. MFD502
Member/List Price $75/$95
Soft cover, 400 pages

This manual covers the administrative and organizational phases of sanitary sewer projects, as well as the parameters necessary to establish the design criteria, complete the design, and award a construction contract, and offers an in-depth discussion of commonly used trenchless and conventional methods of sanitary sewer construction.

Green Infrastructure Implementation
Published by WEF, 2014
Order No.: P140003
Member/List Price: $104/$130
Soft cover, 491 pages

Green Infrastructure Implementation tackles topics that relate directly to the ability to implement green infrastructure. The collection of programmatic and planning topics covers a range of issues from stormwater to public education. Each topic details an assessment of barriers and potential challenges and includes case studies that show how they can be addressed.

Groundwater Resources: Sustainability, Management, and Restoration
Published by McGraw-Hill, 2008
Order No. R090225
Member/List Price $109/$125
Hard cover, 852 pages

Written by Dr. Neven Kresic and packed with hundreds of illustrations, this expansive guide reviews both established and innovative aquifer restoration techniques and technologies, including the control and remediation of contaminant sources and groundwater contaminant plumes.

Guide for Municipal Wet Weather Strategies
Published by WEF, 2013
Order No. P130004
Member/List Price $56/$70
Soft cover, 146 pages

Guide for Municipal Wet Weather Strategies provides a clear and common understanding of what constitutes generally accepted planning and engineering practices and a process for selecting the optimum wet weather management option. All of this supports the proposition that to effectively manage flows and protect human health and the environment, the approach should be holistic and watershed-based.
Handbook of Civil Engineering Calculations, 2nd Edition
Published by McGraw-Hill, 2007
Order No. R70205
Member/List Price $133/$150
Hard cover, 840 pages

Covering all aspects of civil engineering calculations in an easy-to-understand format, the new edition is now revised and updated with more than 500 key calculations that show you exactly how to compute the desired values for a particular design, going quickly from data to finished result.

Handbook of Environmental Engineering Calculations, 2nd Edition
Published by McGraw-Hill, 2007
Order No. R70202
Member/List Price $133/$150
Hard cover, 1000 pages

Designed to give you quick access to essential information, the updated edition of this unique guide now presents the latest methods for solving a wide range of specific problems, together with step-by-step calculation procedures covering virtually every aspect of environmental engineering.

Handbook on Sediment Quality
Published by WEF, 2002
Order No. P02105
Member/List Price $70/$85
Soft cover, 372 pages

This resource thoroughly addresses sorption processes, bioavailability, sediment collection and assessment techniques, toxicity testing, advantages and disadvantages of chemical sediment quality guidelines, and sediment quality modeling.

How to Obtain Water Quality Permits
Published by McGraw-Hill, 2004
Order No. R40204
Member/List Price $89/$102
Hard cover, 385 pages

Written by A. Roger Greenway, this guide provides from-the-ground-up help with the application process and clear explanations of all the policies, procedures, methods, and strategies needed for recordkeeping.

Hydrology and the Management of Watersheds, 3rd Edition
Published by Blackwell Publishing, 2003
Order No. R80105
Member/List Price $68/$80
Hard cover, 588 pages

Aimed at administrators, planners, managers, and technicians dealing with and managing our natural resources, this reference includes updates to the introduction and basic hydrology chapters, special topics such as, hydrologic methods, and tools and technologies for analysis and research in watershed management, and an expanded discussion of stream channel processes, morphology, and classification.

Implementing Asset Management: A Practical Guide
Published by AMWA, NACWA & WEF, 2007
Order No. P07011
Member/List Price $95/$200
Soft cover, 80 pages

This indispensable resource provides utility professionals a step-by-step guide to continued improvement in the management of their infrastructure assets. Depending on the availability of resources, utilities can address their infrastructure assets at a broad, system-wide level by grouping assets or drill-down to individual assets, components, and elements.

Industrial Wastewater Management, Treatment, and Disposal, MOP FD-3, 3rd Edition
Published by WEF Press, 2008
Order No. WPM814
Member/List Price $85/$110
Hard cover, 600 pages

This Manual of Practice offers proven methods to help take on toxic, concentrated, and polluted wastewater. Complete with illustrations and tables throughout, this comprehensive, authoritative guide contains up-to-date information on significant treatment studies, efficient control processes, and the latest regulations.

Industrial Water Quality, 4th Edition
Published by WEF Press, 2008
Order No. WPM815
Member/List Price $140/$160
Hard cover, 896 pages

Written by W. Wesley Eckenfelder, Davis L. Ford, and Andrew J. Engleande, this classic guide to controlling industrial water pollution has been updated with the latest regulations and new technologies. Turn to the new edition for guidance on state-of-the-art methods for optimizing or upgrading existing wastewater treatment systems, as well as selecting the best treatment options to solve specific wastewater problems.

Information Technology in Water and Wastewater Treatment Utilities, MOP 33
Published by WEF Press, 2010
Order No. W100059
Member/List Price $86/$100
Hard cover, 375 pages

The manual presents an overview of the information technology (IT) systems, practices, and applications most relevant to utilities. This resource covers strategic planning, IT program development, project management, infrastructure, security, organizational issues, success factors, and challenges. Six real-world case studies highlight specific technical details and illustrate the concepts presented in this authoritative guide.

Shop online at www.wef.org/ShopWEF
This manual establishes units of expression that are universally understandable and readily comparable for all design, operation, and performance factors. The manual was written for engineering professionals familiar with water and wastewater treatment concepts, the design process, and the regulatory basis for water and wastewater control.

Published by WEF Press, 2014
Order No.: W140003C
Member/List Price: $132/$165
Hard cover, 848 pages

Addressing the challenges of the design engineer’s job, this text offers guidance on designing facilities flexible enough to allow modifications to meet stricter treatment requirements as environmental regulations evolve. It also includes a digital Student Workbook containing over 200 design examples and study problems related to every aspect of water resource recovery facility design.

**Managing the Water and Wastewater Utility**
Published by WEF, 2004
Order No. P12103
Member/List Price $69/$84
Hard cover, 288 pages

Written by Roger J. Dolan, T. Duncan Rose, Robert A. Baker, and Michael J. Barnes, this book provides a foundation of knowledge and an array of experience-based opinions in preparation of a successful management career, including leadership, budgeting and fiscal control, managing O&M, design and capital improvements, and the role of information technology.

**Manure Pathogens: Manure Management, Regulations, and Water Quality Protection**
Published by WEF Press, 2009
Order No. W090023
Member/List Price $110/$125
Hard cover, 562 pages

This groundbreaking publication was developed by leading researchers and practitioners in the health and environmental sciences field fundamental to manure management and water quality protection. This first comprehensive work on manure pathogens details what pathogens are present in manure; what risks they may pose; and how manure can be stored, managed, and treated to reduce risks.

**Membrane Bioreactors, MOP 36**
Published by WEF Press, 2011
Order No. W110077
Member/List Price $110/$125
Hard cover, 448 pages

This resource presents best practices for the use of membrane bioreactors for wastewater treatment. The book begins with an overview of membrane and biological process fundamentals, followed by coverage of membrane bioreactor system integrated process design. The physical design of features unique to membrane bioreactors and the procurement of membrane equipment are discussed. This authoritative manual also covers the operation of properly designed membrane bioreactor facilities.

**Membrane Operations: Innovative Separations and Transformations**
Published by John Wiley & Sons, 2009
Order No. R090152
Member/List Price $240/$280
Hard cover, 551 pages

This book covers all the different innovative membrane areas from separation to contactors, and regarding them as unit operations in process engineering. The specific potential of these advanced new operations is analyzed by different experts in the field, with regard to their basic aspects and in particular to their potential application for a sustainable growth and improvement in the quality of life.

**Membrane Processes for Water Reuse**
Published by McGraw-Hill, 2012
Order No.: R140202
Member/List Price: $89/$99
Hard cover, 464 pages

This book describes how membrane technology can be used alone, with aerobic or anaerobic processes, or as integrated membrane systems to process treated municipal effluent or industrial wastewater for discharge, recycle, or reuse. After reviewing chemistry fundamentals and basic principles, the text covers microfiltration, ultrafiltration, nanofiltration, reverse osmosis, and membrane coupled bioprocesses.

**Membrane Systems for Wastewater Treatment**
Published by WEF Press, 2005
Order No. WPM406
Member/List Price $86/$100
Hard cover, 320 pages

The book focuses on achieving higher standards of water quality and provides comprehensive coverage of all types of systems and phases of operation, from system and equipment configurations to routine monitoring, maintenance, and troubleshooting.
Moving Toward Resource Recovery Facilities

Published by WEF, 2014
Order No.: P140001
Member/List Price: $104/$130
Soft cover, 340 pages

Moving Toward Resource Recovery Facilities provides an overview of state-of-the-art technological approaches to resources recovery and provides general guidance on the applicability of recovery technologies for the cross section of facility types. This allows facilities to take steps towards recycling a greater number of otherwise lost resources such as water, nutrients, and energy.

Nalco Water Handbook, 3rd Edition

Published by McGraw-Hill, 2009
Order No. R090240
Member/List Price $100/$125
Hard cover, 1280 pages

Reflecting major advances in technology and the latest regulatory requirements, this thoroughly revised classic covers basic water chemistry and explains how to improve water quality, minimize water usage, and implement more efficient treatment processes. The 3rd edition covers every essential water treatment topic, including the chemistry of water, water sources, contaminants, impurity removal, steam generation, energy in water systems, wastewater discharge, and industrial and municipal use of water.

Natural Systems for Wastewater Treatment, MOP FD-16, 3rd Edition

Published by WEF, 2010
Order No. M090048
Member/List Price $77/$110
Soft cover, 500 pages

This Manual of Practice covers soil-based treatment systems and aquatic-based treatment systems including up-to-date information on pond effluent treatment technologies for algae removal, floating aquatic treatment using periphyton, vertical flow constructed wetlands, and reciprocating operation of subsurface constructed wetlands.

Nutrient Removal, MOP 34

Published by WEF Press, 2010
Order No. W100060
Member/List Price $115/$130
Hard cover, 664 pages

This manual provides comprehensive information on biological and chemical methods for nitrogen and phosphorus removal from wastewater. This resource covers environmental and regulatory issues and provides an integrated approach for combined nitrogen and phosphorus removal, including details on ammonia and dewatering liquor treatment. Natural treatment systems are also discussed in this definitive guide.

Shop online at www.wef.org/ShopWEF
Operation of Municipal Wastewater Treatment Plants, MOP 11, 6th Edition
Published by WEF Press, 2007
Order No. WPM711
Member/List Price $210/$248
Hard cover, 2016 pages

Online by the Chapter, www.wef.org/ShopWEF
Member/List Price per Chapter $15–$28/$19–$36

This revised edition integrates the experiences, current practices, and innovations from thousands of wastewater treatment plants. Updated to reflect the latest trends, regulations, and technologies, this 2000-page, hard cover Manual of Practice aims to be the principal reference source for beginners or veterans in the wastewater field. This three-volume set includes:

Volume I: Management and Support Systems
Volume II: Liquid Processes
Volume III: Solids Processes

As with the updated manual, the study guide reflects the state of the art in plant management and operation. The manual and study guide are the primary training resources for managers, superintendents, and operators of municipal wastewater treatment plants.

Also Available: Operation of Municipal Wastewater Treatment Plants Study Guide
Order No. STGMOP11
Member/List Price $38/$49
Save 10% when you buy the manual and study guide set: Order No. WPM711C.

Prevention and Control of Sewer System Overflows, MOP FD-17, 3rd Edition
Published by WEF, 2011
Order No. W110075
Member/List Price $95/$110
Hard cover, 448 pages

Fully revised throughout, this Manual of Practice provides the up-to-date information necessary to help managers and engineers understand and analyze an overflow problem, and offers guidance on finding the most efficient, feasible, and cost-effective strategies to reduce or eliminate such overflows.

Processing Water, Wastewater, Residuals, and Excreta for Health and Environmental Protection: An Encyclopedic Dictionary
Published by John Wiley & Sons, 2008
Order No. R090121
Member/List Price $160/$200
Hard cover, 1132 pages

This encyclopedic dictionary consolidates concise definitions, equations, and formulas into one authoritative reference. This invaluable resource defines more than 25,000 key terms related to water treatment, wastewater treatment, excreta disposal, residuals processing, and environmental health.

Project Manager’s Portable Handbook, 3rd Edition
Published by McGraw-Hill, 2010
Order No. R100264
Member/List Price $45/$50
Soft cover, 464 pages

Fully updated throughout, this hands-on guide offers concise, practical details on the fundamental knowledge, skills, and attitudes required to manage projects. This compact reference summarizes best practices for defining, designing, developing, and producing project results. Handy tables, charts, models, and callout boxes illustrate pertinent information in this essential on-the-job tool.

Public Safety Guidance for Urban Stormwater Facilities
Published by American Society of Civil Engineers
Order No. R141108
Member/List Price $63/$70
Soft cover, 120 pages

This guidance provides a framework for integrating protection of the public into the planning, design, operation, and maintenance of stormwater facilities. It describes factors that should be considered in selecting measures and recommends practices than can be used generally or in specific cases. Guidance is provided on such topics as safety evaluations, prioritizing hazards, safeguarding children, fencing, and mosquito control.
18 Alphabetical Summary

**Pump Handbook, 4th Edition**
Published by McGraw-Hill, 2008  
Order No. R80201  
Member/List Price $136/$155  
Hard cover, 1632 pages

The new edition has been fully revised and updated with the latest developments in pump technology. Packed with 1150 detailed illustrations and written by a team of more than 100 internationally renowned pump experts, this vital tool shows you how to select, purchase, install, operate, maintain, and troubleshoot cutting-edge pumps for all types of uses.

**Safety, Health, and Security in Wastewater Systems, MOP 1, 6th Edition**
Published by WEF Press, 2012  
Order No. W120003  
Member/List Price $80/$100  
Hard cover, 482 pages

The 6th edition of this Manual of Practice serves as an injury-reduction tool to all those working in the wastewater field. Topics include guidelines that describe how to perform a confined space entry, lockout/tagout, and chemical deliveries.

Published by CRC Press  
Order No. R141106  
Member/List Price $119.95/$129.95  
Hard cover, 550 pages

Designed to fill a gap in the available material about water, this book examines water reserve utilization and the role of policymakers involved in the decision-making process. The book provides practical knowledge that practitioners and operators must have in order to pass licensure/certification tests and keep up with relevant changes.

**Septage Handling, MOP 24**
Published by WEF, 1997  
Order No. M01002  
Member/List Price $56/$75  
Soft cover, 247 pages

This manual explores alternatives for septage use and disposal, explains statutory requirements and regulations, makes comparisons between septage quantities and characteristics, and explains odor control strategies.

**Solids Handling Training Manual**
Published by WEF, 2001  
Order No. E10012  
Member/List Price $50/$70  
Soft cover, 134 pages

This is a manual for self-paced study of solids handling topics. The manual includes a solids processing overview, as well as information on conditioning, safety, and thickening and dewatering. It contains helpful photos, schematics, and graphs, as well as worked-out example calculations and periodic quizzes to check your progress.

**Solids Process Design and Management**
Published by WEF Press, 2012  
Order No. W120002  
Member/List Price $130/$159  
Hard cover, 1069 pages

This publication is intended for use by professionals engaged in the design, approval, and operation of municipal solids treatment and disposal systems. This publication includes contemporary new material on issues relating to solids process design and management.

**Stormwater Collections Systems Design Handbook**
Published by McGraw-Hill, 2001  
Order No. R00210  
Member/List Price $106/$131  
Hard cover, 1002 pages

From the smallest to the largest municipal and public works systems, this comprehensive reference provides detailed coverage of the latest design methods and tools for analyzing, operating, maintaining, and rehabilitating stormwater collection systems.

**Survival Guide: Public Communications for Water Professionals**
Published by WEF, 2002  
Order No. ZB1201  
Member/List Price $25/$35  
Soft cover, 156 pages

This guide developed by communications experts in the water quality field will help overcome challenges and seize opportunities for developing positive relations with your customers, community leaders, interest groups, the media, and other individuals and organizations.
Standard Methods for the Examination of Water and Wastewater, 
22nd Edition

Published by APHA, 
AWWA & WEF, 2012 
Order No. S82210 
Member/List Price 
$195/$295 
Hard cover 
1496 pages

Since 1905, Standard Methods for the Examination of Water and Wastewater has repre-

tented “the best current practice of American water analysts.” Analysts, researchers, and 
regulatory officials have relied on this comprehensive reference tool as a trusted source of 
accurate, proven methodology for analysis of natural water, water supplies, and wastewater.

The 22nd edition contains over 400 methods, 8 vibrant full color pages of aquatic algae 
illustration, and over 285 superbly illustrated figures.

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new material on: 

• Physical and Aggregate Properties 
• Metals 
• Inorganic Nonmetallic Constituents 
• Aggregate Organic Constituents 
• Individual Organic Compounds 
• Radioactivity 
• Toxicity 
• Microbiological Examination 
• Biological Examination

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• Access to a community of experts 
• E-newsletter highlighting the latest issues and trends 
• Notification of revisions, new materials, and EPA approvals

APHA, AWWA, and WEF offer IP Subscriptions to Standard Methods Online for companies and institutions to provide users with unlimited simultaneous access with no username or password. Users can focus on obtaining water analysis methods, and you can feel confident that you have provided them with the most state-of-the art research tool available in today’s regulatory environment.

Additional subscription options are available. For pricing and more information, visit us online at www.standardmethods.org, or contact 
Sustainability Reporting Statements for Wastewater Systems
Published by WEF, 2012
Order No. P120002
Member/List Price $55/$70
Soft cover, 143 pages

This publication proposes a set of standard environmental performance report formats for wastewater utilities and facilitate uniform reporting similar to what is currently used for financial reporting. The publication outlines the environmental reporting equivalent of Generally Accepted Accounting Principles providing general guidance to wastewater utilities on how information should be compiled and offering standard reporting templates.

Trenchless Technology Pipeline and Utility Design, Construction, and Renewal
Published by WEF Press, 2004
Order No. WPM404
Member/List Price $99/$115
Hard cover, 448 pages

This publication covers valuable trenchless construction methods, such as microtunneling, horizontal directional drilling, the pilot tube method, pipe ramming, horizontal auger boring, pipe jacking, and utility tunneling, and examines pipeline renewal methods, such as cured-in-place pipe, pipe bursting, sliplining, close-fit pipe, underground coatings and linings, panel linings, sewer laterals, localized repairs, modified sliplining, thermoformed pipe, and manhole renewal.

Trenchless Technology Piping: Installation and Inspection
Published by WEF Press, 2010
Order No. W100056
Member/List Price $99/$115
Hard cover, 482 pages

Written by Mohammad Najafi, this step-by-step resource explains how to implement efficient design, construction, and inspection processes and shows how to save time and money with a state-of-the-art project management system. Packed with detailed illustrations, the book surveys the wide variety of trenchless technologies available and discusses the recommended applications for each.

Trenchless Technology: Planning, Equipment, and Methods
Published by McGraw-Hill, 2013
Order No. R130002
Member/List Price $99/$115
Hard cover, 582 pages

This book describes how to plan, schedule, and implement efficient, cost-effective trenchless technology piping projects. Filled with detailed illustrations and real-world examples, this book explains how to accurately compare the costs of trenchless projects, considering geotechnical and rock mass impacts, drilling fluids, and locating and tracking equipment.

Upgrading and Retrofitting Water and Wastewater Treatment Plants, MOP 28
Published by WEF Press, 2004
Order No. WPM403
Member/List Price $69/$85
Hard cover, 300 pages

Because upgrading and retrofitting represents the largest investment by a public or private utility, this Manual of Practice was created to cover the latest upgrading and retrofitting procedures and shows how to avoid common pitfalls, cost overruns, and permit violations.

User-Fee-Funded Stormwater Programs
Published by WEF, 2013
Order No. P130005
Member/List Price $60/$75
Soft cover, 196 pages

A must-read for agencies and public works departments interested in developing charge systems for stormwater programs based on fee structures. User-Fee-Funded Stormwater Programs will specify the drivers for stormwater user-fee formation and explore the responsibilities, costs, and entire implementation process.

Using Reclaimed Water to Augment Potable Water Resources, 2nd Edition
Published by WEF, AWWA, 2008
Order No. P08003
Member/List Price $79/$119
Soft cover, 210 pages

This special publication covers available information on considering indirect potable reuse including the treatment technology; the complex health and regulatory issues; the barriers, backup options, and flexibility needed to maintain system reliability; and the need to address public perception through outreach and clear communication.

The Value of Water: A Compendium of Essays by Smart CEOs
Published by Donna Vincent Roa
Order No. R141107
Member/List Price $24.95/$25.95
Soft cover, 374 pages

This book probes complex issues, informs the conversation about water’s future for business, and shows that business as usual exploitation of our water resources needs to change. These essays will inform your perspectives about water, show that we all need to be stewards of this precious resource, and ultimately, change society’s thinking about the value of water.

Shop online at www.wef.org/ShopWEF
Valve Handbook, 3rd Edition
Published by McGraw-Hill, 2004
Order No. R110278
Member/List Price $95/$105
Hard cover, 496 pages

Valve Handbook, Third Edition, discusses design, performance, selection, operation, and application. This updated resource features a new chapter on the green technology currently employed by the valve industry, as well as an overview of the major environmental global standards that process plants are expected to meet.

Wastewater Biology: The Habitats
Published by WEF, 2000
Order No. P09106
Member/List Price $50/$70
Soft cover, 127 pages

Written with a minimum of technical jargon, the reference identifies commonly occurring organisms and their basic roles in wastewater treatment and describes their habitats and the way these habitats and operational conditions interact.

Wastewater Biology: The Life Processes
Published by WEF, 1994
Order No. P04114
Member/List Price $50/$70
Soft cover, 210 pages

This book reviews bacteria and metabolic/life processes involved in wastewater and sludge stabilization; environmental conditions and concerns; operational measures needed to monitor, correct, or enhance the life processes; and much more.

Wastewater Biology: The Microlife, 2nd Edition
Published by WEF, 2001
Order No. P01200
Member/List Price $50/$70
Soft cover, 312 pages

Valuable to sanitary engineers, chemists, microbiologists, and educators, this publication presents the description, ecology, and functions, beneficial and detrimental, of organisms and microorganisms (the microlife) found in wastewater treatment processes.

Wastewater Collection System Operator Certification Studybook
Published by WEF, 2002
Order No. E20012
Member/List Price $38/$49
Soft cover, 195 pages

Written by James Courchaine, this study book will help wastewater collection system operators expand their knowledge of their chosen field and assist them in preparing for certification examinations. Questions presented cover the following broad general categories: background knowledge, support systems, operation and maintenance, supervision and management, safety procedures, design and construction, electrical pumps and motors, and mathematics.

Wastewater Collection Systems Management, MOP 7, 6th Edition
Published by WEF Press, 2009
Order No. W090036
Member/List Price $86/$100
Hard cover, 272 pages

The new edition provides up-to-date guidance on the oversight of wastewater collection systems, including gravity sewers, pumping stations, force mains, and other sewer conveyance-related facilities. This authoritative volume offers strategies for developing a comprehensive asset-management program that encompasses capacity, management, operations, and maintenance (CMOM) principles as well as the business, engineering, human resource, and communications aspects of a wastewater collection systems project.

Wastewater Disinfection Training Manual
Published by WEF, 2006
Order No. E60012
Member/List Price $50/$70
Soft cover, 250 pages

This manual covers chlorination, onsite sodium hypochlorite generation, ultraviolet disinfection, and alternative methods. With each disinfection technology covered, the manual discusses the properties of the disinfectant, equipment configurations, operating considerations, troubleshooting, and hazards and safety.

Wastewater Solids Incineration Systems, MOP 30
Published by WEF Press, 2009
Order No. W090022
Member/List Price $86/$100
Hard cover, 360 pages

This Manual of Practice is essential to designing and operating the most up-to-date facilities for solids incineration. Incineration is a reliable and cost-effective method of solids handling because the potential for energy recovery and reduction in volume and weight greatly reduces treatment and disposal costs.

Wastewater Stabilization Ponds
Published by CRC Press, 2014
Order No.: R141104
Member/List Price: $110/$120
Hard cover, 343 pages

Easy to build and manage, stabilization ponds can accommodate large fluctuations in flow, providing results that are comparable to conventional systems at a much lower cost. This text examines the use of this natural and highly effective process, centered on wastewater pond management processes and operation procedures that provide passive treatment with minimal energy-driven mechanical elements.
Published by WEF, 2011
Order No. E110072
Member/List Price $50/$70
Soft cover, 250 pages

This manual is intended for water and wastewater utility operations professionals who aspire to or have been promoted to management or leadership positions. It covers management fundamentals while conveying some of the lessons learned from high-performing utilities’ management strategies.

Wastewater Treatment Operator Training Manual: Overview, Preliminary, Primary, and Natural Treatment
Published by WEF, 2009
Order No. E090027
Member/List Price $50/$70
Soft cover, 227 pages

This training manual is composed of four chapters covering Wastewater Treatment Overview, Preliminary Treatment, Primary Treatment, and Natural Treatment Systems. Each chapter has specified learning objectives, detailed tables and figures, a five-question quiz with answer sheet, and blank pages for note taking. Also available in electronic format through www.wef.org/ShopWEF.

Wastewater Treatment Plant Design Handbook
Published by WEF, 2012
Order No. P120001
Member/List Price $73/$90
Soft cover, 191 pages

This handbook is intended to complement several recognized wastewater treatment design references. It facilitates access to those design guides by providing concise information from them and enabling the reader to quickly locate additional information by following direct references. This publication is written for students and design professionals familiar with wastewater treatment concepts, the design process, plant operations, and the regulatory basis of water pollution control.

Wastewater Treatment Process Modeling, MOP 31, 2nd Edition
Published by WEF Press, 2013
Order No. W130002
Member/List Price $108/$135
Soft cover, 388 pages

This authoritative guide helps process engineers understand general modeling concepts and terminology, and offers practical details on how to use process models for the design of small, medium, and large wastewater treatment plants. The manual describes each step of the modeling process, from the fundamental math required and overviews of existing models and when to use them, to modeling protocols and how to interpret data.

Water and Wastewater Calculations, 3rd Edition
Published by WEF Press, 2014
Order No.: W140002
Member/List Price: $99/$125
Hard cover, 977 pages

This new edition provides updated principles and best practices for the calculation of surface water, groundwater, drinking water treatment, and wastewater engineering. Based on practical data and the most current federal and state regulations, this edition is a must-have for all water and wastewater consultants and designers.

Water and Wastewater Engineering: Principles and Practice
Published by WEF Press, 2010
Order No. W100055
Member/List Price $131/$150
Hard cover, 1296 pages

Written by Mackenzie Davis, this authoritative volume offers comprehensive coverage of the design and construction of municipal water and wastewater facilities. The book addresses water treatment in detail, following the flow of water through the unit processes and coagulation, flocculation, softening, sedimentation, filtration, disinfection, and residuals management.

Published by CRC Press, 2014
Order No.: R141103
Member/List Price: $170/$180
Hard cover, 596 pages

This revised and updated text addresses current pricing and financial management challenges involved in the water and wastewater industry. Among numerous management challenges, the book addresses such issues as reduced per capita usage and customer demand, a weak economy, social media, balancing community environmental sustainability with financial sufficiency, an increased focus on water demand management and efficiency, and the concern over rate affordability.

Water and Wastewater Laboratory Techniques
Published by WEF, 1995
Order No. P15124
Member/List Price $59/$78
Soft cover, 218 pages

This book is written as a teaching and reference tool for educating analysts in water and wastewater laboratories in the skills and techniques of the bench chemist explaining everything an analyst might encounter in performing a generic general chemistry test.

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Alphabetical Summary 23

**Water Quality Control Handbook, 2nd Edition**
Published by WEF Press, 2006
Order No. WPM411
Member/List Price $130/$150
Hard cover, 848 pages

Written by E. Roberts Alley, this state-of-the-art guide explores design innovations, equipment selection, treatment processes, new regulations, and operating methods for achieving peak performance in all kinds of wastewater treatment facilities.

**Water-Quality Trading: A Guide for the Wastewater Community**
Published by WEF Press, 2005
Order No. WPM405
Member/List Price $110/$125
Hard cover, 329 pages

Water-quality trading is a market-based approach that allows a facility to meet its regulatory obligations by using the pollutant reductions created by another facility with lower pollution-control costs. Written by Cy Jones, Lisa Bacon, Mark S. Kieser, and David Sheridan, this resource is a practical guide for evaluating the potential for water-quality trading and provides the framework for designing and implementing the trade.

**Water Resources Engineering, 2nd Edition**
Published by John Wiley & Sons, 2010
Order No. R100170
Member/List Price $149/$166
Hard cover, 890 pages

Written by Professor Larry Mays, this textbook presents a straightforward, easy-to-understand presentation of hydraulic and hydrologic processes using the control volume approach. These processes are then extended into practical applications for water use and water excess, including water distribution systems, stormwater control, and flood storage systems.

**Water Resources Sustainability**
Published by WEF Press, 2006
Order No. WPM409
Member/List Price $110/$125
Hard cover, 330 pages

Written by Larry W. Mays, this manual includes information for analyzing water resource needs, modeling supply reliability, irrigation, and optimization.

**Water Reuse: Issues, Technologies, and Applications**
Published by McGraw-Hill, 2007
Order No. R70201
Member/List Price $120/$135
Hard cover, 1570 pages

This award-winning publication equips water/wastewater students, engineers, scientists, and professionals with a definitive account of the latest water reclamation, recycling, and reuse theory and practice taking an integrated approach to all aspects of water reuse, from public health protection to advanced technology to implementation issues.

**Water Tech: A Guide to Investment, Innovation and Business Opportunities in the Water Sector**
Published by CRC Press
Member/List Price $74.95/$84.95
Hard cover, 224 pages

Water Tech: A Guide to Investment, Innovation and Business Opportunities in the Water Sector unveils how the world in the twenty-first century will need to manage our most fundamental resource need, water. It outlines how stakeholders can improve water use in their homes, their businesses, and the world.

**WEF/ABC Biosolids Land Appliers’ Guide to Preparing for the Certification Examination**
Published by WEF, 2012
Order No. E110076
Member/List Price $38/$49
Soft cover, 58 pages

This guide for biosolids land appliers includes practice certification exam questions with references and feedback on each of the correct answers. The ABC Need-To-Know matrix for the seven core competency areas, suggested references for the two class levels, and tips to take the exam are also included.

**WEF/ABC/C2EP Collection Systems Operators’ Guide to Preparing for the Certification Examination**
Published by WEF, 2014
Order No. E140001
Member/List Price $50/$70
Soft cover, 94 pages

The third edition of this critical study guide has been updated to reflect new Need-to-Know Criteria and core competencies for collection system operators. It includes C2EP’s education and experience requirements, tips for taking a certification examination, and sample formulas and conversions. Detailed answers to mathematical problems and references are provided. The 151 questions in this study guide are intended to provide an example of style and possible topics for certification exam questions.

**WEF/ABC Wastewater Laboratory Analysts’ Guide to Preparing for the Certification Examination**
Published by WEF, 2000
Order No. E00017
Member/List Price $38/$49
Soft cover, 294 pages

This guide tests at various levels the skills and knowledge required by laboratory analysts working at wastewater treatment plants. The guide contains more than 400 questions and answers on 19 different topics, chosen to sample many aspects of an analyst’s job. Detailed solution sets are provided for answers requiring mathematical computation.
The third edition of this critical study guide has been updated to reflect new Need-to-Know Criteria and core competencies for wastewater operators. The guide includes CEP's education and experience requirements, tips for taking a certification examination, and sample formulas and conversions. The 175 questions included in this guide have been chosen to sample as many different aspects of a wastewater operator's job responsibilities as possible.

Wet Weather Design and Operation in Water Resource Recovery Facilities presents professionals with a comprehensive reference of current design and operational practices for dealing with the unique challenges associated with the proper management of wet weather flows. This text is comprised of 16 chapters, grouped around planning and configuration for wet weather events in water resource recovery facilities and facility processes.

This thorough reference covers the use of chlorine, chlorine dioxide, ozone, peroxyxone bromine, bromine chloride, iodine, and ultraviolet radiation in water and wastewater treatment. For each disinfectant, the book gives its chemistry, effectiveness, dosing, equipment, and system design requirements, and explains the advantages and disadvantages of use. Most importantly it covers the regulatory requirements of using these disinfectants, plus the potential impacts of the end use of the disinfected water.