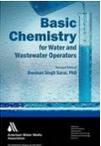
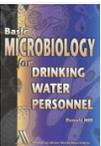
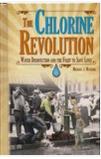
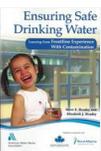


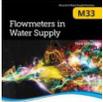
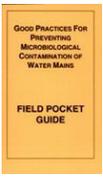
## ACWWA Library

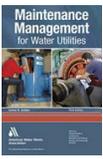
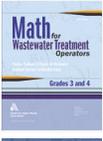
|  | Title   | Sub Title                                       | Description   |
|--|---|---|---|
|    | 2019 Awwa Utility Benchmarking                      | Performance Management For Water And Wastewater |   |
|    | Advanced Waste Treatment                            | A Field Study Training Program                  | This manual provides information to perators of advanced wastewater treatment plants covering biological treatment processes as well as physical-chemical treatment processes. Chapters cover odor control; activated sludge; residual solids management; solids removal from secondary effluents; phosphorus removal; nitrogen removal; enhanced biological control; wastewater reclamation and reuse; and instrumentation.                            |
|    | Air-Release, Air/Vacuum, And Combination Air Valves | M51 - Manual of Water Supply Practices          | Operators, technicians, and engineers will find the information in this manual useful for gaining a basic understanding of the use and application of air valves. A valuable guide for selecting, sizing, locating, and installing air valves in water applications, M51 provides information on air valve types listed in AWWA Standard C512, latest edition, including the following: air-release valve; air/vacuum valve; and combination air valve. |
|    | Algae: Source To Treatment M57                      | M57 Manual of Water Wupply Practices            | AWWA Manual of Water Supply Practice M57 provides all the information required by water treatment professionals to understand and mitigate problems caused by algae in source waters, such as tastes and odors, biofouling, and toxin production. With more than 450 pages and hundreds of photos and illustrations, the manual is a comprehensive reference for identifying and treating algae from drinking water sources.                            |
|    | Avoiding Rate Shock                                 | Making the Case for Water Rates                 | This study from the Water Utility Council of the American Water Works Association shows water utilities how to make the case to decision-makers and customers about the need for sustainable local financing of water infrastructure improvements.  |
|    | AWWA Standard C800-12                               | Underground Service Line Valves & Fittings      |   |
|  | AWWA Standard C800-84                               | Underground Service Line Valves & Fittings      |   |
|  | AWWA Standard C810-17                               | Replacement and Flushing of Lead Service Lines  |   |

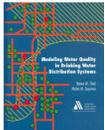
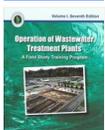
|  | Title   | Sub Title   | Description  |
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|    | AWWA Wastewater Field Guide                             |   | This all-new guide is a compilation of information, charts, graphs, tables, formulas, and definitions that are used by wastewater system operators in performing their daily duties. Designed for ease of use and quick reference.   |
|    | AWWA Water Operator Field Guide                         |   | Only now available in one convenient place, this guide provides charts, graphs, formulas and definitions used daily. Compiled from many sources, it is conveniently organized for use by water operators and design operators. Major sections include conversion factors, chemistry, safety regulations, water quality and treatment, distribution systems, pumps, flows, meters, and on-line resources.   |
|    | Basic Chemistry For Water And Wastewater Operators      |   | This reference provides a very basic overview of chemistry for the water and wastewater treatment plant operator. It covers chemistry basics, including units of measure; acids, bases, and salts; and the gas laws. In addition, the book covers topics specific to water and wastewater, including hardness, disinfection, and corrosion.  |
|    | Basic Microbiology For Drinking Water Personnel         |   | This basic guide to microbiology associated with the lab testing of drinking water provides clear, short descriptions of the waterborne microorganisms--bacteria, viruses, protozoa, amoebae, and algae--which either pose human health threats or contribute to distribution system corrosion.  |
|    | Basic Science Concepts And Applications                 | Principles and Practices of Water Supply Operations | This completely updated version of the 1995 edition within the Water Supply Operations Training Series, is an essential text that is referenced throughout the other volumes in the WSO Series. Readers will find practical discussions of mathematics, hydraulics, chemistry, and electricity as they relate to water topics and system operations. Each chapter includes numerous examples. Step-by-step calculations with the answers included make this an ideal self-study format. Included are a glossary and index, as well as appendixes incorporating conversion tables, the periodic table, a list of elements, and color plates illustrating common algae types. (Previous edition ISBN: 0-89867-796-3) |
|   | Basic Science Concepts And Applications For Wastewater  | Student Workbook                                    | This new Student Workbook is a companion to the new textbook (1583212906) Basic Science Concepts & Applications for Wastewater. The Workbook provides enhanced discussions of topics in the Textbook: mathematics, hydraulics, chemistry, and electricity as they relate to wastewater and system operations.  |
|  | Biological Wastewater Treatment                         |   | Following in the footsteps of previous highly successful and useful editions, Biological Wastewater Treatment, Third Edition presents the theoretical principles and design procedures for biochemical operations used in wastewater treatment processes. It reflects important changes and advancements in the field, such as a revised treatment of the microbiology and kinetics of nutrient removal and an update of the simulation of biological phosphorous removal with a more contemporary model.  |
|  | Chemical Feed Field Guide For Treatment Plant Operators | Calculations and Systems                            | Awwa is the authoritative resource for knowledge, information, and advocacy to improve the quality and supply of water in North America and beyond. Awwa is the largest organization of water professionals in the world. Awwa advances public health, safety, and welfare by uniting efforts of the full spectrum of the entire water community. Through our collective strength, we become better stewards of water for the greatest good of the people and the environment. Book jacket.  |

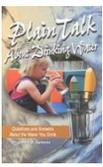
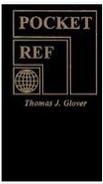
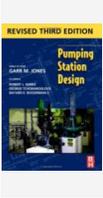
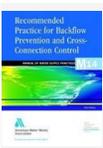
|  | Title   | Sub Title   | Description   |
|--|---|---|---|
|    | The Chlorine Dioxide Handbook                           |   |   |
|    | The Chlorine Revolution                                 | Water Disinfection and the Fight to Save Lives            |   |
|    | Chlorine Safety   | Pocket Guide  |   |
|    | Corrosion Control For Buried Water Mains                | Pocket Field Guide  |   |
|    | Design Of Municipal Wastewater Treatment Plants - Vol 1 | Planning and Configuration of Wastewater Treatment Plants |   |
|   | Design Of Municipal Wastewater Treatment Plants - Vol 2 | Liquid Treatment Processes                                |   |
|  | Design Of Municipal Wastewater Treatment Plants - Vol 3 | Solids Processing and Management                          |   |
|  | Disinfecting Water Mains                                | ANSI/AWWA C651-14   | This standard presents essential procedures for the disinfection of new and repaired potable water mains. Topics covered include forms of chlorine disinfection, a description of the disinfection procedure, preventive and corrective measures during construction, methods of chlorination, final flushing, bacteriological testing, re-disinfection, final connections to existing mains, disinfection procedures when cutting into or repairing existing mains, and special procedures for caulked tapping sleeves. Appendixes cover chlorine residual testing, chlorine dosages, and disposal of heavily chlorinated water. |

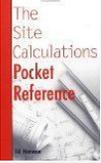
|  | Title   | Sub Title   | Description  |
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|    | Disinfection Of Pipelines And Storage Facilities Field Guide                |   |  |
|    | Distribution Valves: Selection, Installation, Field Testing And Maintenance | M44 - Manual of Water Supply Practices                | Updated from the 1996 edition, this operations manual provides practical information on selecting, installing, field testing, and maintaining distribution valves in potable water systems. It covers the most commonly used valves including globe, butterfly, plug, ball, cone, gate and check. Unloading, inspection, storage, installation, testing, maintenance, and record-keeping are described in detail along with the history and theory. This manual will be particularly useful for small and medium sized organizations.  |
|    | Emergency Planning For Water Utilities - 5th Edition                        | M19 - Manual of Water Supply Practices                | Water and wastewater utilities must be prepared for any type of emergency. Public health must be protected and service must be maintained or quickly restored.<br><br>Manual M19 presents techniques for developing contingency plans for a variety of emergencies from natural disasters to human-caused crises. The manual explains how to develop an emergency preparedness plan, how to identify vulnerabilities in your water system, and how to determine how a disruption would likely impact service.  |
|    | Ensuring Safe Drinking Water  | Learning from Frontline Experience with Contamination | Safe drinking water is essential to human life. Ensuring Safe Drinking Water: Learning From Frontline Experience with Contamination provides those who carry responsibility for ensuring safe drinking water an opportunity to learn from the experiences of others.<br><br>This book presents 21 case studies—10 waterborne disease outbreaks, 7 cases of severe chemical contamination, and 4 close calls—written largely from the perspective of frontline personnel who experienced the events as they unfolded.   |
|    | External Corrosion Control For Infrastructure Sustainability                | Manual of Water Supply Practices                      | Controlling corrosion, done properly, can help extend the useful life of water infrastructure. Effective prevention or mitigation strategies to control corrosion are appropriate for the material and the environment involved, as well as economically feasible.<br><br>The newly revised and renamed Manual M27 presents a logical and well-considered look at<br>1.How and why corrosion occurs<br>2.How to evaluate the corrosion potential of an environment<br>3.How prevention and control measures operate  |
|   | Filter Evaluation Procedures For Granular Media                             |   | Updates to this third edition were made to the figures, tables and text, including discussion of the effects of chemicals on pipe materials, pitting and crevice corrosion, common water pipe coatings, and recommended protective methods for specific pipe materials. New or expanded information includes stray current corrosion, microbologically induced corrosion, oxygen-concentration cells, galvanic corrosion, and stainless steel in aboveground environments. Additionally, lab and field measurements to determine corrosive conditions are emphasized.<br><br>This book is a compilation of more than ten years of searching for procedures to evaluate the condition of filter media. Filter Evaluation Procedures for Granular Media takes you through all of the granular filter test procedures that water professionals need to know. This book will give water industry personnel the guidance needed to produce the highest level of finished water quality for the protection of the public. Filter Evaluation Procedures for Granular Media: Provides a complete filter evaluation and maintenance program for your water treatment plant Includes step-by-step procedures, equipment needed, and forms for recording your findings for 15 filter bed tests Shows correct safety procedures for working in filter beds |
|  | Filter Operations Field Guide   |   | This field guide provides a handy reference for operators to use during day- to-day maintenance and operations of filters in the treatment plants. Numerous common problem issues are discussed along with the appropriate solutions. Coverage includes backwash.  |
|  | Flowmeters In Water Supply  |   |  |

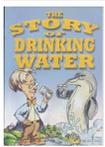
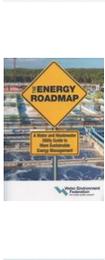
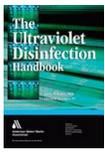
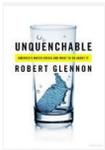
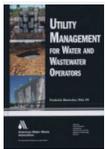
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|    | Flowmeters In Water Supply - 3rd Edition                                   | M33 - Manual of Water Supply Practices                              | <p>This manual provides information about the most common large flowmeters used in water treatment and in custody-transfer applications, including the Venturi, modified Venturi, orifice plate, electromagnetic (mag), turbine and propeller, transit-time ultrasonic, vortex, averaging Pitot, and averaging insertable electromagnetic (mag). The discussion of these meters covers basic theory, installation, maintenance, and advantages and disadvantages. General concepts applicable to flowmeters are also discussed, including flow characteristics, installation and performance.</p> <p>The third edition of this manual contains significant updates that aim to provide more specific information on flowmeters. Additional information has been added on data signals, electronic communication information signal outputs, field testing and more.</p> |
|    | Give Water a Hand Action Guide   | A Youth Program for Environmental Action                            |   |
|    | Good Practices For Preventing Microbiological Contamination Of Water Mains | Field Pocket Guide  |   |
|    | Groundwater  | Manual of Water Supply Practices                                    | <p>The third edition of Groundwater, AWWA Manual M21, is newly designed and fully updated to give operators, engineers, and other water supply professionals a comprehensive understanding of groundwater. The manual provides a basic understanding of groundwater characteristics - its movement, quality, and geology - and the impact these characteristics have on the design, construction, and maintenance of groundwater-well systems for water supply. Additionally, this manual will help water supply professionals answer many of the questions they have about complex aquifer systems, quality testing, pumps and pumping systems, contamination, and treatment.</p>  |
|    | Installation, Field Testing, And Maintenance Of Fire Hydrants              | M17 - Manual of Water Supply Practices                              | <p>Updated from the 1989 edition, this new edition provides the latest information distribution operators need to have about fire hydrants: design, installation, and maintenance practices. Using the easy-to-follow flow-testing procedures included, one can quickly obtain valuable distribution system information. This manual also traces the development of wet-barrel and dry-barrel styles and contains detailed instructions for installation and testing. The updated appendices feature new, updated diagrams of hydrant models, definitions, and record-keeping forms.</p>  |
|   | Internal Corrosion Control In Distribution Systems                         | Manual of Water Supply Practices                                    | <p>M58 has everything you need about internal corrosion:</p> <ul style="list-style-type: none"> <li>• Causes of internal corrosion in water distribution systems</li> <li>• Pipe problems and aesthetic and health issues caused by internal pipe corrosion</li> <li>• Planning and implementing a monitoring and control program</li> <li>• Advantages, disadvantages, and comparative costs of corrosion control chemicals</li> <li>• Performing bench tests and pilot tests</li> <li>• Maintaining excellent water quality between the treatment plant and customer taps</li> </ul>  |
|  | Iron And Manganese Removal Handbook  |   |   |
|  | Let's Talk Safety  | 52 Talks on Common Utility Safety Practices for Water Professionals | <p>The universal goal at utilities is to have every employee, every day, return home to his or her family uninjured. We believe that the first step to not being injured is knowing that you can be injured. Let's Talk Safety is designed to help you build awareness of potential work hazards and provide safety practices that help mitigate those hazards.</p>   |

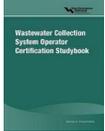
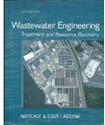
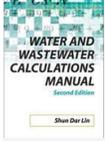
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|    | Maintenance Management For Water Utilities           |   | Plan and manage a total maintenance program for water utility equipment and facilities. This edition includes information on GPS technologies and asset management systems.  |
|    | Math For Distribution System Operators               |   | This handbook provides distribution system operators thorough coverage of the common math problems they use daily and is designed for study for Certification testing. The four sections match the four (4) Grade Levels of Certification. Each section includes 100 math problems for that level followed by detailed solutions on how to work out each problem. There is also a 10 question test (with answers) at the end of each Chapter. Appendices cover common equations, conversation tables and formulas, units of measures, and a list of chemicals.   |
|    | Math For Wastewater Treatment Operators Grades 1 & 2 |   | This new book was written to provide students and operators with examples of a variety of different problems that will be encountered both on the job and for Grades 1 & 2 certification exams. This book is divided into four main parts: a review of significant numbers and rounding; two chapters on math followed by practice tests; and appendices. Each problem is presented with easily followed steps and comments to facilitate understanding. Included after each grade level are tests to help you determine where your strengths or weaknesses are. Appendices contain conversion factors, wastewater treatment equations, chemistry tables, depth-to-diameter tables, and flow charts of wastewater treatment processes. |
|    | Math For Wastewater Treatment Operators Grades 3 & 4 |   | This new book was written to provide students and operators with examples of a variety of different problems that will be encountered both on the job and for Grades 3 & 4 certification exams. The book is divided into four main parts: a review of significant numbers and rounding; two chapters on math followed by practice tests; and appendices. Each problem is presented with easily followed steps and comments to facilitate understanding. Included after each grade level are tests to help you determine where your strengths or weaknesses are. Appendices contain conversion factors, wastewater treatment equations, chemistry tables, depth-to-diameter tables, and flow charts of wastewater treatment processes.  |
|   | Math For Water Treatment Operators                   |   | Practice problems to prepare for water treatment operator certification exams.   |
|  | Modeling Water Quality In Distribution Systems       |   | Updated and expanded from the 1998 edition, this comprehensive text discusses the use of water quality modeling, including EPANET, and its potential for understanding the effects of contaminated transport in drinking water distribution systems. Chapters outline the major elements involved in water quality modeling and the development and application of water quality models.   |

|  | Title  | Sub Title                        | Description   |
|--|--|----------------------------------|---|
|    | Modeling Water Quality In Drinking Water Distribution Systems      |                                  | This comprehensive text outlines the major elements involved in water quality modeling and shows the many uses of applying these models as potentials for enhancing and understanding the factors that affect water quality in distributed water.   |
|    | Operation And Maintenance Of Wastewater Collection Systems - Vol 1 | A Field Study Training Program   | This manual is designed to train personnel in the safe and effective operation of wastewater collection systems. It provides operators with information needed to operate and maintain collection systems efficiently and effectively. Emphasis is on tasks performed by line maintenance crews. Various types of collection systems and construction inspection are covered.   |
|    | Operation And Maintenance Of Wastewater Collection Systems - Vol 2 | A Field Study Training Program   | This manual is designed to train personnel in the safe and effective operation and maintenance of wastewater collection systems. Emphasis is on the duties of operating and maintaining lift stations, maintenance of equipment, and sewer rehabilitation. Other topics include administration and organization for system O&M.   |
|    | Operation of Nutrient Removal Facilities                           | WEF Manual of Practice, No. 37   | This manual is ideal for plant managers, operators, design engineers, and regulators looking to gain a better understanding of fundamental biological and chemical processes that are in use at nutrient removal facilities and the ways that operators may use, monitor, and control these processes to meet their facility's treatment goal. Table of contents Chapter 1: Introduction Chapter 2: Wastewater Constituents that Affect Nutrient Removal Chapter 3: Nitrification Chapter 4: Nitrification in Biofilm Reactors Chapter 5: Denitrification Chapter 6: Combined Nitrifying and Denitrifying Systems Chapter 7: Enhanced Biological Phosphorus Removal Chapter 8: Chemical Precipitation of Phosphorus Chapter 9: Enhanced Biological Phosphorus Removal Systems Chapter 10: Combined Nitrogen and Phosphorus Removal Processes Chapter 11: Optimization of Nutrient Removal Systems Chapter 12: Recycle Streams Management Chapter 13: Process Control Using Oxidation-Reduction Potential and Dissolved Oxygen Chapter 14: Process Control, Instrumentation, and Automation Chapter 15: Laboratory Analyses Chapter 16: Case Studies-Nitrification and Denitrification Chapter 17: Case Studies-Enhanced Biological Phosphorus Removal Appendix A Optimization and Troubleshooting Guides This book was prepared by the Operation of Nutrient Removal Facilities Task Force of the Water Environment Federation. |
|    | Operation Of Wastewater Treatment Plants - Vol 1                   | A Field Study Training Program   | This manual is designed to train operators in the safe and effective operation and maintenance of wastewater treatment plants. Emphasis is on larger conventional treatment plants. It also teaches operators in supervisory and management positions to use good management practices, including maintenance programs, recordkeeping, uses of computers, and also preparation and writing of reports.  |
|   | Operation Of Wastewater Treatment Plants - Vol 1, 7th ed.          | A Field Study Training Program   | This manual is designed to train operators in the safe and effective operation and maintenance of wastewater treatment plants. Emphasis is on larger conventional treatment plants. It also teaches operators in supervisory and management positions to use good management practices, including maintenance programs, recordkeeping, uses of computers, and also preparation and writing of reports.  |
|  | Operation Of Wastewater Treatment Plants - Vol 2, 7th ed.          | A Field Study Training Program   | This course is designed to train operators in the practical aspects of operating and maintaining wastewater treatment plants, emphasizing safe practices and procedures. Topics covered include conventional activated sludge processes, sludge digestion and solids handling, effluent disposal, plant safety and good housekeeping, plant and equipment maintenance, laboratory procedures and chemistry, use of computers for plant operation and maintenance, analysis and presentation of data, and records and report writing. Operators also learn to analyze and solve operational problems and to perform mathematical calculations relating to wastewater treatment process control.  |
|  | Operational Control Of Coagulation And Filtration Processes        | Manual of Water Supply Practices | This AWWA manual of practice describes jar testing, particle counting, and other techniques and processes for monitoring, optimizing, and controlling water treatment.  |

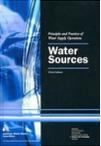
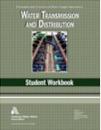
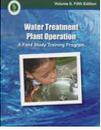
|  | Title   | Sub Title  | Description  |
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|    | Operator Certification Study Guide  | A Guide to Preparing for Water Treatment and Distribution Operator Certification Exams | This book is a revision of the popular study guide for water system last published in 1993. This study resource is a practical tool for treatment plant operators and distribution system personnel as they prepare for the certification exam. Actually formatting is used with the sample questions, all of which have been reviewed by ABC (Association of Board of Certification) and are based on information contained in the WSO training series Water Treatment Textbook and the Water Distributor Operation Handbook. Math formulas, conversation factors and other resource references are also included. Previous edition: 0-89867-685-1)   |
|    | Performance Benchmarking For Water Utilities                              |  |  |
|    | Plain Talk About Drinking Water   | Questions and Answers About the Water You Drink  | An updated and expanded edition of this popular consumer reference with over 200 commonly asked questions and answers about the water you drink. Written for the layperson, language is non-technical, covering health, home treatment, testing, conservation and federal regulations of water. An essential item for all library collections, it is also useful as a customer reference handout and for schools studying water.   |
|    | Pocket Ref  |  | It's the ideal gift for do-it-yourselfers, as well as students, teachers, travelers, engineers, maintenance and industrial personnel.  |
|    | Pretreatment Field Guide  |  | Meant to be used on site in the treatment plant, this pocket-sized guide provides basic operational information about mixing, coagulation, and sedimentation processes in water treatment. It addresses all the basic regulatory, theoretical, operations, inspection, and maintenance issues of these processes, as well as mixing and chemical addition for lime-softening applications. Information on solids produced during the processes is also provided. This field guide is suitable for operators who use mechanical and in-line mixing components with metal salt coagulants to form floc particles.  |
|   | Pumping Station Design Revised, Third Edition: Revised 3rd Edition        |  | Pumping Station Design, 3rd is an essential reference for all professionals. From the expert city engineer to the new design officer, this book assists those who need to apply the fundamentals of various disciplines and subjects in order to produce a well-integrated pumping station which is reliable, easy to operate and maintain, and free from design mistakes. The depth of experience and expertise of the authors, contributors, and peers reviewing the content as well as the breadth of information in this book is unparalleled making this the only book of its kind. * An award-winning reference work that has become THE standard in the field * Dispenses expert information on how to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes * 60% of the material has been updated to reflect current standards and changes in practice since the book was last published in 1998 * New material added to this edition includes: the latest design information, the use of computers for pump selection, extensive references to Hydraulic Institute Standards and much more! |
|  | Pumps and Pumping   |  | This book was prepared in response to a request for a basic pump operation and repair manual for the water and wastewater industry.  |
|  | Recommended Practice For Backflow Prevention And Cross-Connection Control | Manual of Water Supply Practices   | Cross-connection control is one of the most important barriers in the multiple-barrier approach drinking water suppliers use to protect public health. Contamination of a drinking water distribution system through a cross-connection often results in immediate adverse health effects - illness or even death. This Manual provides a total cross-connection control program for your water system. The manual explains how cross-connections and backflow can occur and tells you how to choose, install, and maintain backflow prevention devices. You ll learn the water purveyor 's legal responsibilities, as well as the customer 's responsibilities in backflow prevention. The manual covers risk assessment, types of programs to consider, and program administration. Until the cross connection control program is fully developed, the water purveyor is at maximum risk of potential liability.   |

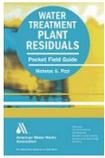
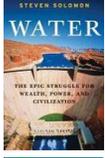
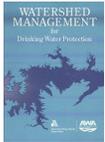
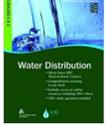
|  | <b>Title</b>  | <b>Sub Title</b>                                 | <b>Description</b>  |
|--|---|--|---|
|    | Safety Practices For Water Utilities                            | Manual of Water Supply Practices                 |   |
|    | Security Practices For Operation And Management                 | G430-14(R20)                                     | The purpose of this standard is to define the minimum requirements for a protective security program for a water, wastewater, or reuse utility that will promote the protection of employee safety, public health, public safety, and public confidence. This standard can be referenced in the evaluation of security practices. The stipulations of this standard apply when this document has been referenced and then only to the security practices of the utility.  |
|    | Select Ansi/Awwa Standards For Small Systems                    |  |   |
|    | The Site Calculations Pocket Reference                          |  | The ultimate field companion for construction professionals. Put it in your pocket-and go! At last! All of the formulas and calculations you need most when working on-site-in one handy pocket reference. Invaluable for all areas of general site construction, it gives you fast access to the information you want-when you want it-complete with practical examples. It covers: Earthworks and landscaping. Drainage, sewers, and irrigation. Temperature, area, and time measurement. Map and surveyor information. Worldwide weather data. Metric conversions. And more.   |
|    | Sludge Engineering  | The treatment and disposal of wastewater sludges | Intended for advanced students and practitioners of wastewater engineering, this comprehensive text clearly explains the theory and quantitative rationale for treating wastewater and industrial sludges, with public safety and efficiency in mind. The authors bring instructional and engineering backgrounds to the subject of sludge, presenting the necessary calculations as well as sample design alternatives for each process in sludge handling. The authors are fully attuned to the controversies surrounding sludge disposal and carefully lay out US and European regulations that govern current technologies. The book offers important information on emerging practices for safe and legal sludge disposal. Numerous case studies and sample problems are included for the benefit of instructors and students. |
|   | Source Water Protection Operational Guide To Awwa Standard G300 |  | This operational guide helps utility managers implement the requirements established in AWWA G300 Source Water Protection. It helps them implement and incorporate G300 into everyday utility operations.<br><br>The operational guide for G300 Source Water Protection helps utilities identify source water protection goals, product action plans, implement the plans, and assess effectiveness.<br><br>It includes worksheets, an extensive resource section, and case studies of successful source protection programs.   |
|  | Splash!   | Activity Book                                    |   |
|  | Standard Methods For Examination Of Water & Wastewater          |  |   |

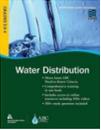
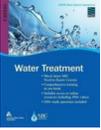
|  | Title  | Sub Title  | Description   |
|--|--|--|---|
|    | The Story Of Drinking Water  |  |   |
|    | Technical Guide  | Performance Improvement for Small and Medium Sized Water Utilities         |   |
|    | The Energy Roadmap   | A Water and Wastewater Utility Guide to More Sustainable Energy Management | <p>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</p> <ol style="list-style-type: none"> <li>1. strategic management,</li> <li>2. creating an organizational culture,</li> <li>3. effective communication and outreach,</li> <li>4. demand-side management,</li> <li>5. energy generation, and</li> <li>6. innovating for the future.</li> </ol>   |
|    | The Truth About Pharmaceuticals & Personal Care Products In Your Water |  | <p>Written for consumers, this booklet discusses the basics about Pharmaceuticals and Personal Care Products (PPCPs): what they are, where they come from, what levels are present and what risks they might pose, the effectiveness of water treatment to remove them, bottled water and home treatment devices, why tap water is safe to drink, what scientists are doing about PPCPs and how to dispose of expired or unwanted drugs safely. Discounts for 10+ copies.</p>   |
|    | The Ultraviolet Disinfection Handbook                                  |  | <p>With the explosion of interest in UV disinfection, the USEPA fully mandates the use of UV disinfection in the new LT2 Enhanced Surface Water Treatment Rules. This Handbook is designed to provide a practical introduction to the subject of UV disinfection and UV reactors. This Handbook will be of value to engineering and scientific consultants, water treatment operators and managers, government regulatory staff, and students and faculty members in undergraduate science and engineering programs. Terminology is carefully defined and essential references are included.</p>  |
|   | Unquenchable   | America's water crisis and what to do about it                             | <p>In the middle of the Mojave Desert, Las Vegas casinos use billions of gallons of water for fountains, pirate lagoons, wave machines, and indoor canals. Meanwhile, the town of Orme, Tennessee, must truck in water from Alabama because it has literally run out. Robert Glennon captures the irony—and tragedy—of America’s water crisis in a book that is both frightening and wickedly comical. From manufactured snow for tourists in Atlanta to trillions of gallons of water flushed down the toilet each year, Unquenchable reveals the heady extravagances and everyday inefficiencies that are sucking the nation dry. The looming catastrophe remains hidden as government diverts supplies from one area to another to keep water flowing from the tap. But sooner rather than later, the shell game has to end.</p>   |
|  | Utility Management   | A Field Study Training Program   | <p>This book offers detailed information regarding all major areas of responsibility of a utility manager. The manual describes why planning, organization, and recordkeeping are critical to virtually all aspects of utility management. Practical, up-to-date staffing guidelines presented in this book reflect widely accepted management practices for interviewing, hiring, supervising, and disciplining employees. Legal requirements of federal legislation such as the Americans With Disabilities Act (ADA) are discussed, as is the importance of developing policies and procedures for dealing with harassment, grievances, and violence in the workplace. In addition, this book highlights the essential elements of effective oral and written communications, including formal and informal public relations programs. A major segment of this book focuses on the financial management of a utility. Topics discussed in this segment include assessing the financial strength and stability of the utility, budgeting, and funding capital improvements.</p> |
|  | Utility Management For Water And Wastewater Operators                  |  |   |

|  | Title  | Sub Title                        | Description  |
|--|--|----------------------------------|--|
|    | Wastewater Collection System Operator Certification Studybook              |                                  |  |
|    | Wastewater Engineering   | Treatment and Resource Recovery  | Following in the footsteps of previous highly successful and useful editions, Biological Wastewater Treatment, Third Edition presents the theoretical principles and design procedures for biochemical operations used in wastewater treatment processes. It reflects important changes and advancements in the field, such as a revised treatment of the microbiology and kinetics of nutrient removal and an update of the simulation of biological phosphorous removal with a more contemporary model.  |
|    | Wastewater Operators' Guide To Preparing For The Certification Examination |                                  | Formerly WEF/ABC Certification Study Guide for Wastewater Treatment Personnel, this newly revised and expanded version of the best-selling WEF/ABC publication is designed to help operators prepare more effectively for certification exams. Includes 240 questions based on validated need-to-know criteria for four skill levels (Operator Level I - IV). For each of the seven need-to-know criteria, the Guide provides: Need-to-know matrix, suggested topics for study, sample questions referenced to specific technical sources, practice with math problems in both metric and English units and feedback including detailed solutions for math problems. |
|    | Wastewater Treatment Fundamentals I  | Liquid Treatment                 | Wastewater Treatment Fundamentals I: Liquid Treatment covers all aspects of liquid treatment processes and helps operators prepare for the first three levels of certification examinations. In addition to learning the basics of liquid treatment, operators will gain a thorough understanding of critical aspects of biological treatment, nutrient removal, and disinfection. After learning from real-life examples, users can apply the material they learn to situations they encounter in their day-to-day work.  |
|    | Wastewater Treatment Plant Design Handbook                                 |                                  | 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.  |
|   | Water And Wastewater Calculations Manual, 2nd Ed.                          |                                  | Quick Access to the Latest Calculations and Examples for Solving All Types of Water and Wastewater Problems! The Second Edition of Water and Wastewater Calculations Manual provides step-by-step calculations for solving a myriad of water and wastewater problems. Designed for quick-and-easy access to information, this revised and updated Second Edition contains over 110 detailed illustrations and new material throughout.   |
|  | Water Audits And Loss Control Programs                                     | Manual of Water Supply Practices | Updated from the 1999 edition, this helpful manual provides information on how to establish guidelines for conducting a water audit and establishing a leak detection program. You'll find instructions for conducting a system-wide water audit, developing a leak detection and repair program, and evaluating your program's effectiveness. Includes sample worksheets and forms.   |
|  | Water Chlorination/Chloramination Practices And Principles                 | Manual of Water Supply Practices | Completed updated from the 1973 edition, this brand new edition provides the latest on chlorination practices. Its covers distribution system chlorination, equipment, chlorination principles and safe handling practies. The manual includes numerous tables, figures, references and a glossary of common terms.  |

|  | Title  | Sub Title  | Description   |
|--|--|--|---|
|    | Water Conservation For Small- And Medium-Sized Utilities |  | For utilities serving up to 100,000 customers, this book provides guidance on implementing a water conservation program. With a menu of conservation approaches from which to choose, the book lets utilities plan a custom program. Includes worksheets, cost analysis, sample programs, and recommended budgets.  |
|    | Water Conservation Programs - a planning manual.         |  | This manual provides guidance for municipal water resources managers on developing a citywide or regional water conservation plan.<br><br>The manual describes goal setting, water use analysis, potential savings, costs and benefits, conservation techniques and rate setting, responsibilities of stakeholders and outside groups, setting up a program, overcoming public resistance, program implementation, and success measurement. |
|    | The Water Dictionary                                     | A Comprehensive Reference of Water Terminology   | Newly updated and expanded, this dictionary provides standardized definitions for thousands of water and wastewater-related words, phrases, acronyms, chemicals, and microorganisms. This is an essential desk reference for anyone in the field of water utilities.  |
|    | Water Distribution Operator Training Handbook            |  | Updated from the 1999 edition, this will continue to be the best-selling operator training book for reference and certification study. Chapters cover water resources and production, storage, distribution, chlorine handling, utility safety, system hydraulics, pipe types, installation, maintenance, meters, pumps, motors, public relations, and overall system operations. Replaces ISBN 1-58321-014-8                               |
|    | Water Operator Certification Study Guide                 | A Guide to Preparing for Water Treatment and Distribution Operator Certification Exams |   |
|   | Water Quality  | Student Workbook   | Updated from the 1995 edition, this helpful workbook provides thorough understanding of analytical techniques and drinking water regulations. This supplement assures a student will get more from their studies. Acts as a companion and supports the textbook's discussion of the same topics. (Replaces ISBN: 0-89867-988-5)   |
|  | Water Quality  | Principles and Practices of Water Supply Operations                                    | This completely updated version of the 1995 edition within the Water Supply Operations Training Series (WSO), provides practical information about methods of water quality analysis and drinking water regulations This introductory text presents the basics of proper sample collection, analysis, and interpretation and includes a list of necessary laboratory equipment and instruments.   |
|  | Water Quality Complaint Investigator's Field Guide       |  | Eight major categories describe the majority of customer complaints about water quality. In each category, the guide describes the possible causes and solutions. Categories include: air in water/milky water, dirty water/colored water/foreign particles in water/staining, hard water/scale/spots on glassware, sickness/skin irritation, tastes/odors, worms/insects in water, aquarium fish problems, and garden damage.              |

|  | Title   | Sub Title   | Description   |
|--|---|---|---|
|    | Water Sources                                       | Principles and Practices of Water Supply Operations | This 3rd edition introduces operator trainees to the basic information related to the raw sources of drinking water supply. The text assumes no prior knowledge and starts with basic hydrology. Subsequent chapters go deeper into sources for community drinking water supply; operating wells, surface water, storage, groundwater, volume, aquifers, water rights, regulations and more. Filled with clarifying photos and illustrations.   |
|    | Water Transmission & Distribution                   | Student Workbook                                    |   |
|    | Water Transmission And Distribution                 | Principles and Practices of Water Supply Operations | This college text introduces water distribution systems. Chapters cover system layout, pipe, valves, fire hydrants, storage tanks, meters, pumps, motors, instrumentation, control, water main installation, tapping, and backflow and cross-connection prevention. Part three of a five-part series on drinking-water supply operations.   |
|    | Water Treatment                                     | Principles and Practices of Water Supply Operations | This completely updated version of the 1995 edition within the Water Supply Operations Training Series, provides a valuable introduction to the fundamentals of common water treatment processes and techniques. Specific topics include raw water quality, treatment options, treatment chemicals, and drinking water regulations. Chapters discuss specific treatment processes in detail. The text also examines common operating problems and suggests solutions to ensure water quality and includes detailed illustrations, photographs, supplemental reading lists, a glossary, and an index. (Previous edition ISBN: 0-89867-789-0) |
|    | Water Treatment Operator Handbook                   |   | "Water treatment plant operators make an important contribution to the public health of their communities. The Water Treatment Operator Handbook provides these operators will a single source of comprehensive information for operating today's water treatment plants. With the information provided in this publication, operators will be able to provide the safest possible water to the consumer."--BOOK JACKET.  |
|   | Water Treatment Operator Handbook - Revised Edition |   | Updated from the 2002 edition, this book covers everything water treatment operators need to know to perform their jobs and keep in compliance with changing regulations. Coverage includes: pretreatment, coagulation, flocculation, sedimentation, filtration, disinfection, adsorption, iron and manganese removal, fluoridation, corrosion, nano-,ultra-, and microfiltration, testing and laboratory procedures, instrumentation and control equipment, and safety practices. A totally new chapter on Regulated Contaminant and Treatment Challenges has been added. Replaces ISBN: 1-58321-184-5                                     |
|  | Water Treatment Plant Operation - Vol 1             | A Field Study Training Program                      | This manual is designed to train operators in the safe and effective operation and maintenance of drinking water treatment plants. It emphasizes the knowledge and skills needed by operators of conventional surface water treatment plants. Also included is information needed by all operators responsible for the administration and management of a water treatment plant.  |
|  | Water Treatment Plant Operation - Vol 2             | A Field Study Training Program                      |   |

|  | Title  | Sub Title   | Description  |
|--|--|---|--|
|    | Water Treatment Plant Residuals                              | Pocket Field Guide                                    | This handy pocket guide provides all the day-to-day operational guidance water operators need on the proper handling and disposal of water treatment wastes. Topics include regulations, operational goals, types of waste, nonmechanical and mechanical dewatering processes, and operational techniques.   |
|    | Water Treatment Process Monitoring & Evaluation              |   | This book provides information and tools to assist operators in evaluating treatment plant operational changes (such as the changes in treatment efficiency due to changes in the raw water). and to help operators make corresponding water chemistry or other process changes to keep the plant operating properly. Both operators and system managers can use the analysis tools to more easily understand and operate a plant and be able to identify and correct any plant deficiencies.  |
|    | Water Treatment Student Workbook                             |   |  |
|    | Water: The Epic Struggle For Wealth, Power, And Civilization | the epic struggle for wealth, power, and civilization | Far more than oil, the control of water wealth throughout history has been pivotal to the rise and fall of great powers, the achievements of civilization, the transformations of society's vital habitats, and the quality of ordinary daily lives. In Water, Steven Solomon offers the first-ever narrative portrait of the power struggles, personalities, and breakthroughs that have shaped humanity from antiquity's earliest civilizations, the Roman Empire, medieval China, and Islam's golden age to Europe's rise, the steam-powered Industrial Revolution, and America's century. Today, freshwater scarcity is one of the twenty-first century's decisive, looming challenges and is driving the new political, economic, and environmental realities across the globe. Steven Solomon's Water is a groundbreaking account of man's most critical resource in shaping human destinies, from ancient times to our dawning age of water scarcity.   |
|    | Waterborne Pathogens   | Manual of Water Supply Practices                      |  |
|   | Watershed Management For Drinking Water Protection           |   | This basic practice guide addresses watershed or catchments management from the perspective of drinking water quality protection on an international scope. Topics covered in this guide are based on the recommendation of delegates at the March, 2005 joint watershed management seminar/workshop was held in Honolulu, HI. This compilation of articles was prepared jointly by members of the Australian Water Association and the American Water Works Association to serve as a basic guide for the global water systems members.   |
|  | Why Water's Worth It   |   | This educational picture book is about a little girl with a big story to tell – Why Water's Worth It. With her nose buried in her book, she walks young readers through the world of clean water, how it's managed, and the importance of everyone working together to protect it. Written for 4- to 8 -year-olds but with appeal to readers of all ages, this book uses fun, engaging illustrations and rhyming text to present a simple explanation of a complex process while encouraging personal responsibility and thoughtful, “green” choices. To help small hands become big heroes, the book includes a list of small ways to make a big difference and cool facts to explain why water's worth it! Give it as a special gift; add it to your home library; make a donation to a school or public library; or use it as a public education tool for facility tours, classroom presentations, and in support of water awareness days and activities such as World Water Day, Earth Day, and World Toilet Day. You Need Water. Water Needs You. From parents, to teachers, to water professionals around the world, this story will help you empower the next generation of water protectors. |
|  | WSO Water Distribution Grades 1 & 2                          | AWWA Water Supply Operations                          | WSO Water Distribution, Grades 1 & 2, is organized into 22 chapters addressing core test content on certification exams. Chapters discuss regulations, operator math and chemistry, and specific distribution processes in detail. Other chapters cover water use and system design, water mains, hydrants and valves, water system supply security and public relations. Everything you need to know to pass your Grade 1 or 2 exam is included in this book.   |

|  | <b>Title</b>                        | <b>Sub Title</b>             | <b>Description</b>   |
|--|-------------------------------------|------------------------------|--|
|  | WSO Water Distribution Grades 3 & 4 | AWWA Water Supply Operations | WSO Water Distribution, Grades 3 & 4, is organized into 13 chapters addressing core test content on certification exams. Chapters discuss regulations, operator math and chemistry, and specific distribution processes in detail. Other chapters cover water use and system design, water mains, hydrants and valves, water system supply security and public relations. Everything you need to know to pass your Grade 3 or 4 exam is included in this book.   |
|  | WSO Water Treatment Grade 1         | AWWA Water Supply Operations | Water Treatment, Grade 1, is organized into 21 chapters addressing core test content on certification exams. Chapters discuss regulations, operator math and chemistry, and specific treatment processes in detail. Other chapters cover water quality testing, electrical and monitoring systems, treatment plant safety, and monitoring and recording requirements. Everything you need to know to pass your Grade 1 exam is included in this book.            |
|  | WSO Water Treatment Grade 2         | AWWA Water Supply Operations | Water Treatment, Grade 2, is organized into 22 chapters addressing core test content on certification exams. Chapters discuss regulations, operator math and chemistry, and specific treatment processes in detail. Other chapters cover water quality testing, electrical and monitoring systems, treatment plant safety, and monitoring and recording requirements. Everything you need to know to pass your Grade 2 exam is included in this book.            |
|  | WSO Water Treatment Grades 3 & 4    | AWWA Water Supply Operations | Water Treatment, Grades 3 and 4, is organized into 15 chapters addressing core test content on certification exams. Chapters discuss regulations, operator math and chemistry, and specific treatment processes in detail. Other chapters cover water quality testing, electrical and monitoring systems, treatment plant safety, and monitoring and recording requirements. Everything you need to know to pass your Grade 3 & 4 exam is included in this book. |