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Applied Math for Wastewater Plant Operators Mathematics Manual for Water and Wastewater Treatment Plant Operators *Mathematics Manual for Water and Wastewater Treatment Plant Operators* Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition Applied Math for Water Plant Operators Water Treatment Made Simple *Basic Math Concepts Mathematics Manual for Water and Wastewater Treatment Plant Operators - Three Volume Set* **Information Concerning Wastewater Treatment Plant Operator Certification Water and Wastewater Treatment Plant Operator Needs for Tennessee** *Water Treatment Plant Operator* **Wastewater Treatment Plant Operator On-site Technical Assistance Training Program - 104(g)(1) Math Handbook for Wastewater Treatment Plant Operators Chief Sewage Treatment Plant Operator** Wastewater Treatment Plant Operator Wastewater Treatment Plant Operator Red-Hot Career; 2547 Real Interview Question *Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition: Wastewater Treatment Operations* **Wastewater Operator Certification Study Guide** *Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition: Water Treatment Operations* **Mandatory Certification Program for Wastewater Treatment Plant Operators in the State of Washington Mathematics Manual for Water and Wastewater Treatment Plant Operators: Wastewater Treatment Operations Basic Mathematics for Water and Wastewater Operators Supervisory Wastewater Treatment Plant Operator Work Log Water Treatment Operator Handbook** Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition: Wastewater Treatment Operations **Wastewater Treatment Plant Operations Made Easy** *Reciprocity for Public Water Treatment Plant Operator Certification* **Wastewater Treatment Plant Operations Made Easy Spellman's Standard Handbook for Wastewater Operators Wastewater Treatment Plan Operator Wastewater Treatment Plant Operator Exams Super Operator** Handbook of Water and Wastewater Treatment Plant Operations Wastewater Treatment Plant Operator **Water and Wastewater Treatment Plant Operators** *Focus on Wastewater Treatment Plant Operator Certification Fees* **Practice Exams** An Evaluation of New York State's Wastewater Treatment Plant Operator Certification and Training Programs Wastewater Treatment **Chief Water Treatment Plant Operator**

Applied Math for Water Plant Operators Apr 20 2023 With many worked examples, this book provides a step-by-step training manual for water treatment calculations. It presents all the fundamental math concepts and skills needed for daily water treatment plant operations. The text covers volume, flow and velocity, milligrams per liter to pounds per day, loading rate, detention and retention times, efficiency pumping, water sources and storage, coagulation and flocculation, sedimentation, filtration, chlorination, fluoridation, and softening. The workbook for this book can be purchased separately or together in the Applied Math for Water Plant Operators Set (ISBN: 9781566769884).

Mathematics Manual for Water and Wastewater Treatment Plant Operators - Three Volume Set Jan 17 2023 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator's license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typicall

Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition: Water Treatment Operations Feb 06 2022 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator s license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace. Hailed on its first publication as a masterly account written in an engaging, highly readable, user-friendly style, the Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition""has been expanded and divided into three specialized texts that contain hundreds of worked examples presented in a step-by-step format. They are ideal for all levels of water treatment operators in training and practitioners studying for advanced licensure. In addition, they provide a handy desk reference and handheld guide for daily use in making operational math computations. This second volume, Water Treatment Operations: Math Concepts and Calculations, covers computations commonly used in water treatment with applied math problems specific to waterworks operations, allowing operators of specific unit processes to focus on their area of specialty. It explains calculations for pumping, water source and storage, coagulation and flocculation, sedimentation, filtration, chlorination, fluoridation, and water softening. The text presents math operations that progressively advance to higher, more practical applications of mathematical calculations, including math operations that operators at the highest level of licensure would be expected to know and perform. To ensure correlation to modern practice and design, this volume provides illustrative problems for commonly used waterworks treatment operations found in today s treatment facilities."

Focus on Wastewater Treatment Plant Operator Certification Fees Aug 20 2020

Wastewater Treatment Plan Operator Feb 23 2021 The purpose of this study is to determine the employer and training needs in the metropolitan Omaha area for the occupation of waste water treatment plant operator. (Page 1)

Wastewater Operator Certification Study Guide Mar 07 2022 Wastewater treatment operators can study all the areas covered in Grades One-Four wastewater operator certification exams with this essential guide. The questions are similar to actual questions in the exams, and provided answers ensure a thorough study resource.

Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition: Wastewater Treatment Operations Jul 31 2021 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator’s license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace. Hailed on its first publication as a masterly account written in an engaging, highly readable, user-friendly style, the Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition has been expanded and divided into three specialized texts that contain hundreds of worked examples presented in a step-by-step format. They are ideal for all levels of water treatment operators in training and practitioners studying for advanced licensure. In addition, they provide a handy desk reference and handheld guide for daily use in making operational math computations. This third volume, Wastewater Treatment Operations: Math Concepts and Calculations, covers computations commonly used in wastewater treatment with applied math problems specific to wastewater operations, allowing operators of specific unit processes to focus on their area of specialty. It explains calculations for flow, velocity, and pumping; preliminary and primary treatments; trickling filtration; rotating biological contactors; and chemical dosage. It also addresses various aspects of biosolids in wastewater, treatment ponds, and water/wastewater laboratory calculations. The text presents math operations that progressively advance to higher, more practical applications of mathematical calculations, including math operations that operators at the highest level of licensure would be expected to know and perform. To ensure correlation to modern practice and design, this volume provides illustrative problems for commonly used wastewater treatment operations found in today’s treatment facilities.

Chief Water Treatment Plant Operator Apr 15 2020

Wastewater Treatment May 17 2020

Wastewater Treatment Plant Operator Jun 10 2022

Water and Wastewater Treatment Plant Operators Sep 20 2020 The Bureau of Labor Statistics of the

U.S. Department of Labor highlights the occupation of water and wastewater treatment plant operator as part of the "Occupational Outlook Handbook" series. Water treatment plant operators treat water so that it is safe to drink. Wastewater treatment plant operators remove harmful pollutants from domestic and industrial wastewater so that it is safe to return to the environment. The bureau discusses the nature of the work, working conditions, employment, training, the job outlook, earnings, and related occupations.
Handbook of Water and Wastewater Treatment Plant Operations Nov 22 2020 The Handbook of Water and Wastewater Treatment Plant Operations is the first thorough resource manual developed exclusively for water and wastewater plant operators. Now regarded as an industry standard, this fourth edition has been updated throughout, and explains the material in easy-to-understand language. It also provides real-world case studies and operating scenarios, as well as problem-solving practice sets for each scenario. Features: Updates the material to reflect the developments in the field Includes new math operations with solutions, as well as over 250 new sample questions Adds updated coverage of energy conservation measures with applicable case studies Enables users to properly operate water and wastewater plants and suggests troubleshooting procedures for returning a plant to optimum operation levels Prepares operators for licensure exams A complete compilation of water science, treatment information, process control procedures, problem-solving techniques, safety and health information, and administrative and technological trends, this text serves as a resource for professionals working in water and wastewater operations and operators preparing for wastewater licensure exams. It can also be used as a supplemental textbook for undergraduate and graduate students studying environmental science, water science, and environmental engineering.
Basic Math Concepts Feb 18 2023 FROM THE PREFACE In the years since the first edition, I have continued to consider ways in which the texts could be improved. In this regard, I researched several topics including how people learn (learning styles, etc.), how the brain functions in storing and retrieving information, and the fundamentals of memory systems. Many of the changes incorporated in this second edition are a result of this research. The changes were field-tested during a three-year period in which I taught a water and wastewater mathematics course for Palomar Community College, San Marcos, California. All the fundamental math concepts and skills needed for daily water/wastewater treatment plant operations. This first volume, ""Basic Math Concepts for Water and Wastewater Plant Operators,"" provides a thorough review of the necessary mathematical concepts and skills encountered in the daily operations of a water and wastewater treatment plant. Each chapter begins with a skills check to allow the student to determine whether or not a review of the topic is needed. Practice problems illustrate the concepts presented in each section.
Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition: Wastewater Treatment Operations Apr 08 2022 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator s license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace. Hailed on its first publication as a masterly account written in an engaging, highly readable, user-friendly style, the Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition""has been expanded and divided into three specialized texts that contain hundreds of worked examples presented in a step-by-step format. They are ideal for all levels of water treatment operators in training and practitioners studying for advanced licensure. In addition, they provide a handy desk reference and handheld guide for daily use in making operational math computations. This third volume, Wastewater Treatment Operations: Math Concepts and Calculations, covers computations commonly used in wastewater treatment with applied math problems specific to wastewater operations, allowing operators of specific unit processes to focus on their area of specialty. It explains calculations for flow, velocity, and pumping; preliminary and primary treatments; trickling filtration; rotating biological contactors; and chemical dosage. It also addresses various aspects of biosolids in wastewater, treatment ponds, and water/wastewater laboratory calculations. The text presents math operations that progressively advance to higher, more practical applications of mathematical calculations, including math operations that operators at the highest level of licensure would be expected to know and perform. To ensure correlation to modern practice and design, this volume provides illustrative problems for commonly used wastewater treatment operations found in today s treatment facilities."
Practice Exams Jul 19 2020 This book contains 4 full-length practice exams for water treatment certification. Each practice exam consists of 100 questions, which test the operator's knowledge of water treatment concepts and ability to solve relevant math problems. The 400 common test questions contained in this book are based on actual exams.The questions cover the following topics:1. Water source2. Reservoirs and intakes3. Coagulation and flocculation4. Sedimentation5. Filtration6. Disinfection7. Corrosion8. Taste and odor9. Plant operations10. Lab procedures11. Safety12. Drinking water regulations13. Pumps . The book is geared towards those who are in the earlier stages of their career, such as the first two certification levels.
Mathematics Manual for Water and Wastewater Treatment Plant Operators Jun 22 2023 A comprehensive, self-contained mathematics reference, The Mathematics Manual for Water and Wastewater Treatment Plant Operators will be useful to operators of all levels of expertise and experience. The text is divided into three parts. Part 1 covers basic math, Part 2 covers applied math concepts, and Part 3 presents a comprehensive workbook with
Wastewater Treatment Plant Operations Made Easy Apr 27 2021 This book gives plant operators and students of wastewater a simple and math-based introduction to all major unit processes in the modern wastewater treatment plant. The work is designed for operators and managers to run plants and to advance their careers by passing state licensure exams.
Information Concerning Wastewater Treatment Plant Operator Certification Dec 16 2022
Wastewater Treatment Plant Operator Exams Jan 25 2021 Discusses why Connecticut does not use a national exam to test wastewater treatment plant operators, why few people pass the Class IV (highest level) exam, and what type of exam and passing rates exist in nearby states.
Water Treatment Made Simple Mar 19 2023 A concise guide to the ins and outs of water treatment plants Water Treatment Made Simple is an easy-to-understand introduction to the increasingly complex functions of water treatment plants. It's a perfect primer for anyone pursuing Water Treatment Plant Operator certification, and a succinct refresher for new hires since it covers all the fundamental proficiencies of water treatment, including laboratory testing, hydraulics, mathematics, chemistry, water transmission, disinfection, and microbiology. Water Treatment Made Simple also serves as a highly illustrative reference featuring dozens of handy problem-solving tables that are invaluable for troubleshooting on site, and brief and simplified versions of fundamental principles in each chapter, supplemented with common problems and possible solutions. It features: * Unique problem-solving tools to help operators diagnose and remedy problems throughout the treatment process * Self-review questions that help readers qualify their understanding of covered topics * A comprehensive list of references for further study * A helpful glossary and appendixes for quick reference
Mandatory Certification Program for Wastewater Treatment Plant Operators in the State of Washington Jan 05 2022
Math Handbook for Wastewater Treatment Plant Operators Aug 12 2022 Understandable Step-by-Step Wastewater Math Wastewater treatment plant operators use mathematics to make key process decisions. It is important for the operator to have an understanding of math fundamentals along with the technical concepts of wastewater treatment plant operation. By reviewing the math principles presented in this text and linking these principles to wastewater treatment processes, the operator can better understand and solve math related problems. This Handbook describes the typical wastewater treatment plant processes encountered by today's operator and shows how to solve process related math problems. The Math Handbook for Wastewater Treatment Plant Operators is also a valuable resource in preparing the operator for math problems given on licensing examinations for wastewater treatment systems. Typical exam problems are solved in an easy to understand, step-by-step format.
Wastewater Treatment Plant Operations Made Easy Jun 29 2021 This book gives plant operators and students of wastewater a simple and math-based introduction to all major unit processes in the modern wastewater treatment plant.Written with plant personnel in mind, the book furnishes easy-to-understand explanations of each step in treating wastewater-from screening, through sedimentation and settling, to

activated sludge.The work is designed for operators and managers to run plants and to advance their careers by passing state licensure exams. Sample questions and problems in the text have been selected to prepare for operator examinations.Each chapter of the book is devoted to fully clarifying a unit process, and includes sample questions and problems.The book opens with a review of math, as this is applied to wastewater calculations. Many sample problems throughout give the reader an opportunity to practice and apply math formulas in realistic wastewater situations. Step-by-step descriptions of math problems show the reader how to arrive at the correct answer. The Chapter lineup has been preserved in this edition.Many practical tips and sample quizzes are furnished to help operators studying on their own and in courses.Written in a readable, non-technical style, this text is designed to explain wastewater technologies using down-to-earth approaches comprehensible to students. At the same time, it provides complete definitions of the key technical terms a wastewater operator needs to know.

Chief Sewage Treatment Plant Operator Jul 11 2022 The Chief Sewage Treatment Plant Operator Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study.

Water Treatment Operator Handbook Sep 01 2021 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

Wastewater Treatment Plant Operator Red-Hot Career; 2547 Real Interview Question May 09 2022 3 of the 2547 sweeping interview questions in this book, revealed: Resolving Conflict question: Tell us about a time when you had to help two peers settle a Wastewater treatment plant operator dispute. How did you go about identifying the issues? What did you do? What was the result? - Selecting and Developing People question: Have you ever participated in a Wastewater treatment plant operator task group? - Initiative question: Give some Wastewater treatment plant operator instances in which you anticipated problems and were able to influence a new direction Land your next Wastewater treatment plant operator role with ease and use the 2547 REAL Interview Questions in this time-tested book to demystify the entire job-search process. If you only want to use one long-trusted guidance, this is it. Assess and test yourself, then tackle and ace the interview and Wastewater treatment plant operator role with 2547 REAL interview questions; covering 70 interview topics including Setting Performance Standards, Responsibility, Problem Resolution, Setting Goals, Evaluating Alternatives, Project Management, Variety, Career Development, Follow-up and Control, and Delegation...PLUS 60 MORE TOPICS... Pick up this book today to rock the interview and get your dream Wastewater treatment plant operator Job.

Water Treatment Plant Operator Oct 14 2022

Super Operator Dec 24 2020 A Practical Guide for Water Treatment Operators and Managers, Written in Terms and Processes that are easily understood.

Supervisory Wastewater Treatment Plant Operator Work Log Oct 02 2021 Do you have a job? Do you keep a record of what you do on your job? Did you know that setting aside 15 minutes at the end of the day to record in a Work Log and reflect on your day can boost your efficiency and thus impact your career success? In addition to this, a Work Log is a record of actions, events, accomplishments, and incidences. Record activities in your Work Log hourly, daily, weekly or even monthly. But why is it important to keep a Work Log? A Work Log: a. Helps to keep a record of your daily activities such as clocking in and clocking out times b. Helps to record tasks that you accomplish throughout the day, c. Can be used to keep only important information, without too much detail d. Allows you to record when and who gives you a task or to whom you give a task, e. Allows for easier preparation of reports by referring to your Work Log, f. Can be used to record sick days, absences, lunch time and even your salary, g. Provides a hard copy in your own handwriting, h. Assists you in providing legal evidence in case of legal proceedings against you, Choose from our wide selection of Work Logs and customize it to match your needs. Please leave a review or send us a copy of your customized Work Log to orangeworklogs@gmail.com so that we can improve our Work Logs to serve you better. Work Log size 6 x 9 inches (Simply click on the name Orange Logs beside the word Author to see Work Logs in other sizes)

Spellman's Standard Handbook for Wastewater Operators Mar 27 2021 Spellman's Standard Handbook for Wastewater Operators Volume 1 Fundamental-Level provides information and unit process trouble-shooting guidance required on a daily basis, not only by the plant manager, plant superintendent, chief operator, lab technician, maintenance operator, but more importantly by and for the plant operator, and those in preparation for taking the entry-level Class IV/Class III or Grade I/II operator examinations. This handbook was prepared to help operators obtain licensing and to operate wastewater treatment plants properly. It can be used as a textbook in technical training courses in technical schools and at the junior college level. Spellman's Standard Handbook for Wastewater Operators is the first volume of a new study guide and readily accessible source of information for review in preparing wastewater personnel for operator certification and licensure. These handbooks are resource manuals and troubleshooting guides that contain wastewater treatment information, data, operational material, process control procedures and problem solving, safety and health information, new trends in wastewater treatment administration and technology, and numerous sample problem-solving practice sets, many based on actual tests. The Handbooks' goal is to enhance the understanding, awareness and abilities of practicing operators and those who want to become operators. The three volumes are designed to build on each other, providing increasingly advanced information. For persons preparing for operator's licensing, this is critical, because wastewater treatment is a complex process. For licensed veteran operators, continuous review is also critical, because wastewater treatment is an evolving, dynamic, ever-changing field. Spellman's Standard Handbooks provide the vehicle for reaching these goals.

An Evaluation of New York State's Wastewater Treatment Plant Operator Certification and Training Programs Jun 17 2020

Basic Mathematics for Water and Wastewater Operators Nov 03 2021 "To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator's license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace. Hailed on its first publication as a masterly account written in an engaging, highly readable, user-friendly style, the fully updated Mathematics Manual for Water and Wastewater Treatment Plant Operators: Basic Mathematics for Water and Wastewater Operators introduces and reviews fundamental concepts critical to qualified operators. It builds a strong foundation based on theoretical math concepts, which it then applies to solving practical problems for both water and wastewater operations. Features: Provides a strong foundation based on theoretical math concepts, which it then applies to solving practical problems for both water and wastewater operations. Updated throughout and add several new practical problems. Provides illustrative examples for commonly used waterworks and wastewater treatment operations covering unit process operations found in today's treatment facilities"--

Mathematics Manual for Water and Wastewater Treatment Plant Operators: Wastewater Treatment Operations Dec 04 2021 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator’s license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace. Hailed on its first publication as a masterly account written in an engaging, highly readable, user-friendly style, the Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition has been expanded and divided into three specialized texts that contain hundreds of worked examples presented in a step-by-step format. They are ideal for all levels of water treatment operators in training and practitioners studying for advanced licensure. In addition, they provide a handy desk reference and handheld guide for daily use in making operational math computations. This third volume, Wastewater Treatment Operations: Math Concepts and Calculations, covers computations commonly used in wastewater treatment with applied math problems specific to wastewater operations, allowing operators of specific unit processes to focus on their area of specialty. It explains calculations for flow, velocity, and pumping; preliminary and primary treatments; trickling filtration; rotating biological contactors; and

chemical dosage. It also addresses various aspects of biosolids in wastewater, treatment ponds, and water/wastewater laboratory calculations. The text presents math operations that progressively advance to higher, more practical applications of mathematical calculations, including math operations that operators at the highest level of licensure would be expected to know and perform. To ensure correlation to modern practice and design, this volume provides illustrative problems for commonly used wastewater treatment operations found in today's treatment facilities.

Applied Math for Wastewater Plant Operators Aug 24 2023 With many worked examples, this book provides step-by-step instruction for all calculations required for wastewater treatment. Pertinent calculations are conveniently summarized in each chapter. The text covers all the fundamental math concepts and skills needed for daily wastewater treatment plant operations. The workbook for this book can be purchased separately or together in the Applied Math for Wastewater Plant Operators Set (ISBN: 9781566769891).

Wastewater Treatment Plant Operator On-site Technical Assistance Training Program - 104(g)(1) Sep 13 2022

Mathematics Manual for Water and Wastewater Treatment Plant Operators Jul 23 2023 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator's license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace. Hailed on its first publication as a masterly account written in an engaging, highly readable, user-friendly style, the fully updated Mathematics Manual for Water and Wastewater Treatment Plant Operators: Basic Mathematics for Water and Wastewater Operators introduces and reviews fundamental concepts critical to qualified operators. It builds a strong foundation based on theoretical math concepts, which it then applies to solving practical problems for both water and wastewater operations. Features: • Provides a strong foundation based on theoretical math concepts, which it then applies to solving practical problems for both water and wastewater operations. • Updated throughout and with several new practical problems added. • Provides illustrative examples for commonly used waterworks and wastewater treatment operations covering unit process operations found in today's treatment facilities.

Wastewater Treatment Plant Operator Oct 22 2020

Water and Wastewater Treatment Plant Operator Needs for Tennessee Nov 15 2022

Reciprocity for Public Water Treatment Plant Operator Certification May 29 2021 Discusses the process for reciprocity of public water treatment operator certification in Connecticut.

Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition May 21 2023 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator's license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace. Hailed on its first publication as a masterly account written in an engaging, highly readable, user-friendly style, the Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition has been expanded and divided into three specialized texts that contain hundreds of worked examples presented in a step-by-step format. They are ideal for all levels of water treatment operators in training and practitioners studying for advanced licensure. In addition, they provide a handy desk reference and handheld guide for daily use in making operational math computations. This first volume, Basic Mathematics for Water and Wastewater Operators, introduces and reviews fundamental concepts critical to qualified operators. Presented at a basic level, this volume reviews fractions and decimals, rounding numbers, significant digits, raising numbers to powers, averages, proportions, conversion factors, flow and detention time, and the areas and volumes of different shapes. It also explains how to keep track of units of measurement (such as inches, feet, and gallons) during the calculations. After building a strong foundation based on theoretical math concepts, the text moves on to applied math—basic math concepts applied in solving practical problems for both water and wastewater operations. The material is presented using clear explanations in manageable portions to make learning quick and easy, and illustrative real-world problems are provided that correlate to modern practice and design.