



**Mathematics Manual for Water and Wastewater  
Treatment Plant Operators, Second Edition:  
Water Treatment Operations: Math Concepts and  
Calculations (Mathematics ... and Wastewater  
Treatment Plant Operators)**

*Frank R. Spellman*

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# Mathematics Manual for Water and Wastewater Treatment Plant Operators, Second Edition: Water Treatment Operations: Math Concepts and Calculations (Mathematics ... and Wastewater Treatment Plant Operators)

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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.

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