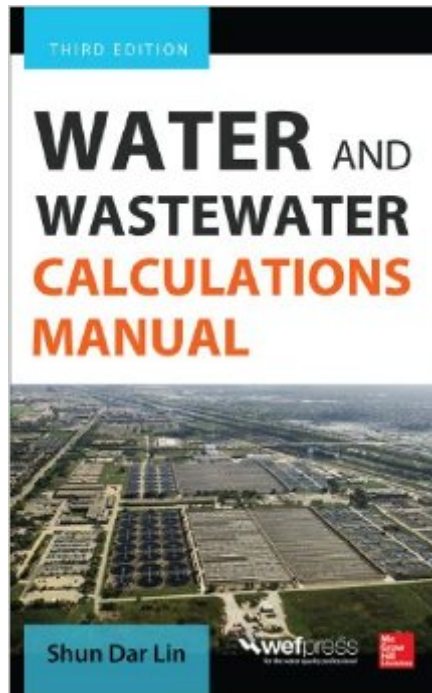


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# Water And Wastewater Calculations Manual, Third Edition



## Synopsis

Step-by-step water and wastewater calculations-- updated for the latest methods and regulations

Water and Wastewater Calculations Manual, Third Edition, provides basic principles, best practices, and detailed calculations for surface water, groundwater, drinking water treatment, and wastewater engineering. The solutions presented are based on practical field data and the most current federal and state rules and regulations. Designed for quick access to essential data, the book contains more than 100 detailed illustrations and provides both SI and U.S. customary units. This up-to-date environmental reference contains new and revised information on: U.S. Environmental Protection Agency maximum contaminant levels for public water systems and protection from waterborne organisms Membrane filtration processes Clarification systems Ultraviolet disinfection Ozonation SNAD--simultaneous partial nitrification, ANAMMOX (anaerobic ammonium oxidation), and denitrification Membrane bioreactors Lake evaporation mathematical models Comprehensive coverage includes: Stream and river sanitation Lake and reservoir management Groundwater regulations and protection Fundamental and treatment plant hydraulics Public water supply Wastewater engineering Macro-invertebrate tolerance list Well function for confined aquifers Solubility product constants for solution at or near room temperature Freundlich adsorption isotherm constants for toxic organic compounds Factors for conversion

## Book Information

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## Customer Reviews

The manual contains every calculation with explanation that you will need to understand water and waste water treatment performance. Chapter 12 on membrane processes is very complete and a very good job explaining membrane technology available and giving the calculations that pertain to membrane performance

Professor Lin's new book is a great job for an environmental engineer to catch water and wastewater technologies. It starts from introducing water resources of Streams and Rivers (Ch1), Lakes and Reservoirs (Ch2), and Groundwater (Ch3) then Fundamental and Treatment Plant Hydraulics (Ch4). Among these chapters, hydrodynamics and hydrology are introduced for one to realize in theoretical aspect. Public Water Supply (Ch5) and Wastewater Engineering (Ch6) are practical examples for engineer to know how to calculate treatment unit function step by step. I appreciate for Lin's efforts and wish each green worker will love it and use it well. By the way, Is Complicated | line 16, p.xi a typo ?

My professional background and experience is related to drinking water treatment so I focused on Chapter 5 of this text. In general I found it to contain an excellent review with examples of fundamental water calculation practices. In particular, the sections relating to aeration and lime softening calculations were very good. The review of the SDWA as an introduction to the Chapter was well done as was the section on CT calculations. With the proliferation of membrane technology across a wide variety of treatment applications, and given the history of membrane performance issues, I would however suggest the future editions give more attention to recommended pretreatment methodology based on specific raw water quality contaminants. That subject is touched on by the author but the reader is left to explore that question himself. Related to membrane wastes (brines), it would also be worthwhile to dedicate more space to residuals disposal as it impacts process selection. At this time, I only skimmed through the remaining sections but the calculation examples appear to be well presented.

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