



# Water and Wastewater Calculations Manual, Third Edition (Mechanical Engineering)

By Shun Dar Lin

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## Water and Wastewater Calculations Manual, Third Edition (Mechanical Engineering) By Shun Dar Lin

### 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

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### Editorial Review

#### About the Author

**Shun Dar Lin, Ph.D.** is one of the world's leading water and wastewater scientists with more than 50 years of practical and academic experience in the field. He is Professor Emeritus at the University of Illinois at Urbana-Champaign. A registered professional engineer in Illinois and in Taiwan, Dr. Lin has published more than 100 papers, articles, and reports related to water and wastewater engineering. He has taught and conducted research since 1960 at the Institute of Public Health of the National Taiwan University. In 1986, Dr. Lin received the Water Quality Division Best Paper Award for “*Giardia lamblia* and Water Supply” from the American Water Works Association. He developed the enrichment-temperature acclimation method for recovery enhancement of stressed fecal coliform which has been adopted in the *Standard Methods for the Examination of Water and Wastewater* since the 18th Edition (1990). Dr. Lin is a life member of the American Society of Civil Engineers, the American Water Works Association, and the Water Environment Federation. He currently serves on many Task Force Committees for the *Standard Methods*. Dr. Lin was appointed by the Governor of Illinois to the Illinois Pollution Control Board (2008-2010). He is a consultant to the governments of Taiwan and the United States and for private firms.p>

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