



# Water Engineering: Hydraulics, Distribution and Treatment

By Nazih K. Shammass, Lawrence K. Wang

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**Water Engineering: Hydraulics, Distribution and Treatment** By Nazih K. Shammass, Lawrence K. Wang

Details the design and process of water supply systems, tracing the progression from source to sink

- Organized and logical flow, tracing the connections in the water-supply system from the water's source to its eventual use
- Emphasized coverage of water supply infrastructure and the design of water treatment processes
- Inclusion of fundamentals and practical examples so as to connect theory with the realities of design
- Provision of useful reference for practicing engineers who require a more in-depth coverage, higher level students studying drinking water systems as well as students in preparation for the FE/PE examinations
- Inclusion of examples and homework questions in both SI and US units

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## **Editorial Review**

From the Back Cover

### **Details the design and process of water supply systems, tracing the progression from source to sink**

A clean water supply with sufficient quantity and pressure is necessary for public health and fire protection. Increasing urbanization and industrialization, however, places high levels of stress on water supply systems. Sanitary and sufficient sources of water for municipal purposes are becoming more difficult to find. New and improved treatment processes are constantly being researched and developed in order to keep up with the growing demand for water. An effective design for drinking water systems relies on an understanding and application of scientific, engineering principles. Environmental engineers employ diverse biological, physical and chemical techniques to extract and treat water from a variety of resources including surface water, groundwater, sea water and rain/snow.

Fair, Geyer, and Okun's *Water and Wastewater Engineering: Water Engineering: Hydraulics, Distribution and Treatment*, Third Edition discusses water quality, quantity and quality issues, problems related to emerging contaminants, water supply infrastructure, and water-quality standards. The book deals with different infrastructural components of municipal water systems, such as collection, purification, transmission, and distribution works. It also discusses the ways in which these systems and treatments supplement one another to produce an adequate water supply, pressure, and purification standard that meets the needs of the population.

It features:

- An organized and logical flow, tracing the connections in the water supply system from the water's source to its eventual use
- Design of water-supply infrastructure and water treatment processes
- Useful reference for practicing water engineers who require a more in-depth, higher level description of drinking water systems as well as students in preparation for the FE/PE examinations
- Examples and homework questions in both SI and US units
- Fundamentals and practical examples so as to connect theory with the realities of design

Lawrence K. Wang is currently a consultant to industries, municipalities, and the US Federal and local governments. He has been a facility manager, design engineer, inventor, professor and book editor for over 45 years. He was acting president of The Lenox Institute of Water Technology and Engineering Director of Krofta Engineering Corporation, as well as a recipient of the Pollution Control 5-Star Innovative Engineering Award, the NYWEA Kenneth Research Award, and the Korean WPCA Engineering Award. He is an inventor of 29 US and foreign patents, and an author of 700+ scientific papers, and 40+ engineering books.

Nazih K. Shammass is currently a consultant, book editor and author. He has been an environmental expert, researcher, professor and consultant for over 40 years. He was Dean and Director at the Lenox Institute of Water Technology and consultant to Krofta Engineering Corporation as well as the recipient of a Block

Grant from the University of Michigan, First Award for best thesis of the year from the Sigma Xi Society, Commendation from ABET, and the GCC Prize for Best Environmental Work. Nazih Shammam is included for over 10 years in 5 of the Who's Who Publications. He is the author of over 250 publications and 20 environmental engineering books.

#### About the Author

**Nazih K. Shammam** is currently a consultant, book editor and author. He has been an environmental expert, researcher, professor and consultant for over 40 years. He was Dean and Director at the Lenox Institute of Water Technology and consultant to Krofta Engineering Corporation. Nazih Shammam is recipient of a Block Grant from the University of Michigan, First Award for best thesis of the year from the Sigma Xi Society, Commendation from ABET, and the GCC Prize for Best Environmental Work. For the last 10 years, his biography is included in 5 of the Who's Who Publications. He is the author of over 250 publications and 20 environmental engineering books.

**Lawrence K. Wang** is currently a consultant to industries, municipalities, and the US Federal and local governments. He has been a facility manager, design engineer, inventor, professor and book editor for over 45 years. He was acting president of The Lenox Institute of Water Technology and Engineering Director of Krofta Engineering Corporation, as well as a recipient of the Pollution Control 5-Star Innovative Engineering Award, the NYWEA Kenneth Research Award, and the Korean WPCA Engineering Award. He is an inventor of 29 US and foreign patents, and an author of 700+ scientific papers, and 40+ engineering books.

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##### **Douglas Whatley:**

Book is to be different for every grade. Book for children till adult are different content. We all know that that book is very important for all of us. The book Water Engineering: Hydraulics, Distribution and Treatment has been making you to know about other knowledge and of course you can take more information. It is rather advantages for you. The book Water Engineering: Hydraulics, Distribution and Treatment is not only giving you much more new information but also being your friend when you sense bored. You can spend your own spend time to read your publication. Try to make relationship with the book Water Engineering: Hydraulics, Distribution and Treatment. You never feel lose out for everything when you read some books.

##### **Mary McHugh:**

Reading a book tends to be new life style in this era globalization. With looking at you can get a lot of information that can give you benefit in your life. Together with book everyone in this world can share their idea. Ebooks can also inspire a lot of people. Lots of author can inspire their reader with their story or even their experience. Not only the story that share in the publications. But also they write about the ability about something that you need illustration. How to get the good score toefl, or how to teach your children, there are many kinds of book which exist now. The authors these days always try to improve their ability in writing, they also doing some exploration before they write for their book. One of them is this Water Engineering: Hydraulics, Distribution and Treatment.

**Mark Hoffman:**

Spent a free time for you to be fun activity to complete! A lot of people spent their spare time with their family, or their friends. Usually they undertaking activity like watching television, going to beach, or picnic in the park. They actually doing same task every week. Do you feel it? Would you like to something different to fill your current free time/ holiday? May be reading a book might be option to fill your no cost time/ holiday. The first thing that you'll ask may be what kinds of e-book that you should read. If you want to consider look for book, may be the guide untitled Water Engineering: Hydraulics, Distribution and Treatment can be very good book to read. May be it could be best activity to you.

**Michael Brown:**

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