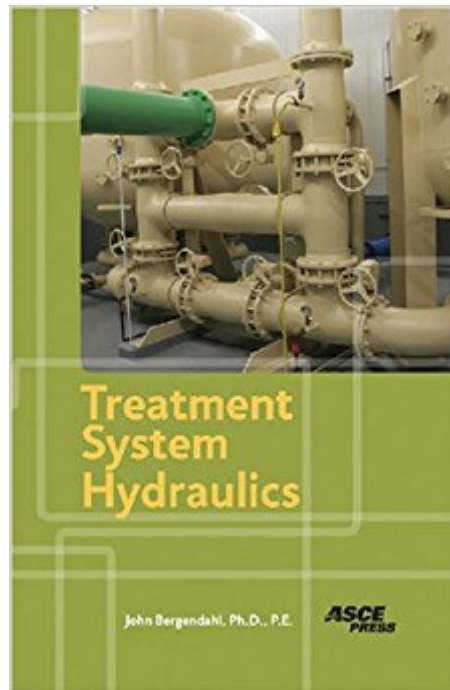




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Treatment System Hydraulics



Synopsis

When it comes to water and wastewater treatment facilities, environmental engineers quickly discover that knowledge of chemical, physical, and biological processes is not enough to ensure a workable design and trouble-free operation. The success of a treatment system depends to a significant degree on the system's fluid flow--that is, on the selection and arrangement of pipes, channels, valves, pumps, and other hydraulic components that move fluid through the system. Treatment System Hydraulics addresses the nuts-and-bolts of treatment systems, examining typical variables and describing methods for solving the problems faced by practitioners on a daily basis. The book begins with an introduction to treatment systems and hydraulics and explains the basic concepts of fluid properties, fluid statics, and fluid flow. Then Bergendahl discusses the factors that shape engineering decisions: friction in closed conduits, pumps and motors, granular media, valves, instrumentation, materials and corrosion, effects of transient conditions, and open channel flow. Each chapter presents fundamental concepts and applications in diverse situations, along with worked examples and problem sets. Suitable for undergraduate and graduate courses, Treatment System Hydraulics is also an useful reference for environmental, mechanical, civil, and chemical engineers designing or managing water treatment facilities. About the Author John Bergendahl, Ph.D., P.E., is an associate professor in the civil and environmental engineering department of Worcester Polytechnic Institute in Massachusetts.

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