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An In-Depth Guide to Water and Wastewater Engineering This authoritative volume offers comprehensive coverage of the design and construction of municipal water and wastewater facilities. The book addresses water treatment in detail, following the flow of water through the unit processes and coagulation, flocculation, softening, sedimentation, filtration, disinfection, and residuals management. Each stage of wastewater treatment—preliminary, secondary, and tertiary—is examined along with residuals management. Water and Wastewater Engineering contains more than 100 example problems, 500 end-of-chapter problems, and 300 illustrations. Safety issues and operation and maintenance procedures are also discussed in this definitive resource. Coverage includes: Intake structures and wells Chemical handling and storage Coagulation and flocculation Lime-soda and ion exchange softening Reverse osmosis and nanofiltration Sedimentation Granular and membrane filtration Disinfection and fluoridation Removal of specific constituents Drinking water plant residuals management, process selection, and integration Storage and distribution systems Wastewater collection and treatment design considerations Sanitary sewer design Headworks and preliminary treatment Primary treatment Wastewater microbiology Secondary treatment by suspended and attached growth biological processes Secondary settling, disinfection, and postaeration Tertiary treatment Wastewater plant residuals management Clean water plant process selection and integration

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This comprehensive textbook highlights the fundamental concepts and design principles related to water and wastewater engineering. Problems and issues arising from the lack of sustainable conventional treatment practices and potential methods for resolving problems are discussed in detail. The book starts with an introduction to water resources and the need for water and wastewater treatment, followed by evaluation of water demand in terms of quantity and quality. Mass transfer and transformation processes that are necessary for understanding the complexity of water pollution issues and treatment processes are discussed in detail. Pedagogical features include learning objectives, chapter-wise study outlines, detailed solutions to important problems and self-evaluation exercises with answers. Case studies for specific water treatment requirements are provided to enable the students to choose and apply only relevant treatment processes in their design.

As the worlds population has increased, sources of clean water have decreased, shifting the focus toward pollution reduction and control. Disposal of wastes and wastewater without treatment is no longer an option. Fundamentals of Wastewater Treatment and Engineering introduces readers to the essential concepts of wastewater treatment, as well as t

Development and trends in wastewater engineering:determination of sewage flowrates;hydraulics of sewers;design of sewers;sewer appurtenancesand special structures;pump and pumping stations;wastewater characteristics;physical unit operations,chemical unit processes;design of facilities for physical and chemical treatment of wastewater;design of facilities for biological treatment of wastewater;design of facilities fortreatment and disposal of sludge;advanced wastewater treatment;water-pollution control and effluent disposal;wastewater treatment studies.

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Lauded for its engaging, highly readable style, the best-selling first edition became the premier guide for nonengineers involved in water and wastewater treatment operations. Water and Wastewater Treatment: A Guide for the Nonengineering Professional, Second Edition continues to provide a simple, nonmathematical account of the unit processes used to treat both drinking water and wastewater. Completely revised and expanded, this second edition adds new material on technological advances, regulatory requirements, and other current issues facing the water and wastewater industries. Using step-by-step, jargon-free language, the authors present all the basic unit processes involved in drinking water and wastewater treatment. They describe each unit process, the function of the process in water or wastewater treatment, and the basic equipment used in each process. They also explain how the processes fit together within a drinking water or wastewater treatment system and discuss the fundamental concepts that constitute water and wastewater treatment processes as a whole. Avoiding mathematics, chemistry, and biology, the book includes numerous illustrations for easy comprehension of concepts and processes. It also contains chapter summaries and an extensive glossary of terms and abbreviations for quick reference.

This text series of Water and Wastewater Engineering have been written in a time of mounting urbanisation and industrialisation and resulting stress on water and wastewater systems. Clean and ample sources of water for municipal uses are becoming harder to find and more expensive to develop. The text is comprehensive and covers all aspects of water supply, water sources, water distribution, sanitary sewerage and urban stormwater drainage. This wide coverage is helpful to engineers in their every day practice.

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