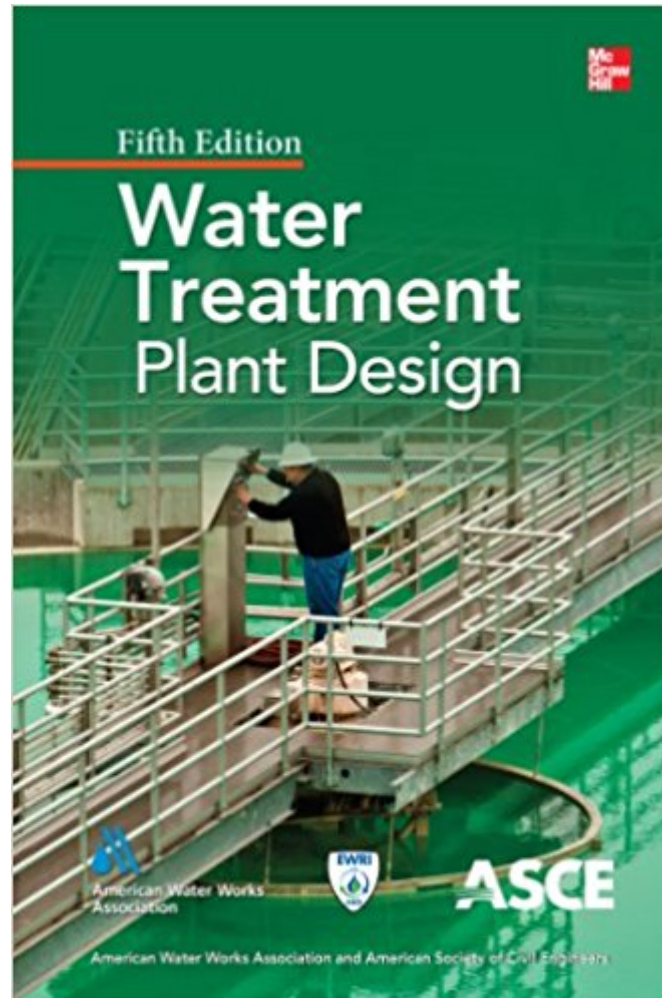


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# Water Treatment Plant Design, Fifth Edition (Mechanical Engineering)



## Synopsis

THE MOST TRUSTED AND UP-TO-DATE WATER TREATMENT PLANT DESIGN REFERENCE

Thoroughly revised to cover the latest standards, technologies, regulations, and sustainability practices, *Water Treatment Plant Design, Fifth Edition*, offers comprehensive guidance on modernizing existing water treatment facilities and planning new ones. This authoritative resource discusses the organization and execution of a water treatment plant project--from planning and permitting through design, construction, and start-up. A joint publication of the American Water Works Association (AWWA) and the American Society of Civil Engineers (ASCE), this definitive guide contains contributions from renowned international experts. **COVERAGE INCLUDES:** Sustainability Master planning and treatment process selection Design and construction Intake facilities Aeration and air stripping Mixing, coagulation, and flocculation Clarification Slow sand and diatomaceous earth filtration Oxidation and disinfection Ultraviolet disinfection Precipitative softening Membrane processes Activated carbon adsorption Biological processes Process residuals Pilot plant design and construction Chemical systems Hydraulics Site selection and plant arrangement Environmental impacts and project permitting Architectural design HVAC, plumbing, and air supply systems Structural design Process instrumentation and controls Electrical systems Design reliability features Operations and maintenance considerations during plant design Staff training and plant start-up Water system security and preparedness Construction cost estimating

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