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Water Treatment Plant Design, Fifth Edition

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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 defi nitive 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
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