



# Integrated Design and Operation of Water Treatment Facilities

*Susumu Kawamura*

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# Integrated Design and Operation of Water Treatment Facilities

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This Second Edition of Susumu Kawamura's landmark volume offers comprehensive coverage of water treatment facility design, from the basic principles to the latest innovations. It covers a broad spectrum of water treatment process designs in detail and offers clear guidelines on how to choose the unit, process, and equipment that will maximize overall efficiency and minimize maintenance costs. This book also explores many important operational issues that affect today's plant operators and facility designers.

This new edition introduces several new subjects, including value engineering, watershed management, dissolved air flotation process, filtered reservoir (clearwell) design, and electrical system design. It provides expanded and updated coverage of objectives for finished water quality, instrumentation and control, disinfection process, ozonation, disinfection by-product control, the GAC process, and the membrane filtration process. Other important features of this Second Edition include:

- \* Practical guidance on the design of every water treatment plant component
- \* New information on plant layout, cost estimation, sedimentation issues, and more
- \* English and SI units throughout
- \* Help in designing for compliance with water treatment-related government regulations

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