



Introduction to Water Resource Recovery Facility Design, Second Edition (Mechanical Engineering)

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THE MOST COMPLETE, CURRENT INTRODUCTORY GUIDE TO WATER RESOURCE RECOVERY FACILITY DESIGN

Fully updated for the latest regulations and standards, the second edition of this renowned Water Environment Federation book provides students and practicing engineers with authoritative information on state-of-the art facility design and treatment processes.

The text addresses the challenges of the design engineer's job--to incorporate new technology and innovations while producing a facility that will perform as expected under variable and unpredictable loadings. *Introduction to Water Resource Recovery Facility Design, Second Edition*, also offers guidance on designing facilities with the flexibility to allow modifications to meet more-stringent treatment requirements as environmental regulations evolve.

Comprehensive coverage includes:

- The design process
- Hydraulics
- Preliminary treatment
- Primary treatment
- Suspended-growth biological treatment
- Attached-growth biological treatment
- Biological nutrient removal
- Natural treatment systems
- Physical and chemical processes
- Ancillary processes
- Production and transport of wastewater solids
- Conditioning of solids
- Stabilization
- Thickening, dewatering, and drying solids
- Beneficial use and ultimate disposal

Introduction to Water Resource Recovery Facility Design, Second Edition, includes a digital companion *Student Workbook* containing more than 200 design examples and study problems related to every aspect of water resource recovery facility design. The *Student Workbook* can be downloaded through the Water Environment Federation store at www.wef.org/ShopWEF.

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