



# Water Quality Control Handbook, Second Edition (McGraw-Hill Handbooks)

*E. Alley*

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# Water Quality Control Handbook, Second Edition (McGraw-Hill Handbooks)

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**Water Quality Control Handbook, Second Edition (McGraw-Hill Handbooks) E. Alley**

## **Capitalize on the Latest Design and Operating Innovations for Achieving Peak Performance in Any Wastewater Treatment Plant**

Wastewater treatment professionals can turn to the updated Second Edition of *Water Quality Control Handbook* for cutting-edge information on designing and operating systems used to treat wastewater from industrial and domestic sources. This state-of-the-art guide explores design innovations, equipment selection, treatment processes, new regulations, and operating methods for achieving peak performance in all kinds of wastewater treatment facilities.

Noted pollution control expert E. Roberts Alley examines breakthroughs that are improving current wastewater treatment practice. He covers the optimization of activated sludge wastewater treatment through cation control ...pH control for quickly varying pH levels...and the use of separate activated sludge treatment units in series to efficiently treat a mixture of biodegradable and refractory organics. The author also discusses the design of activated sludge wetlands...new pollutant precipitation techniques...total nitrogen removal design...recommendations for reducing effluent toxicity to aquatic life...and much more. Filled with 650 illustrations, charts, and tables, the Second Edition of *Water Quality Control Handbook* features:

- Expanded coverage of treatment systems for specific pollutants
- The latest water quality regulations
- New sections on wastewater treatment operations, new material on membrane treatment processes, and new developments in cost-saving treatment design methods

### **Inside This Landmark Water Quality Control Guide**

- Sources of Water Pollution • Pollutant Classification • Water Quality • Environmental Management • Regulatory Standards • Wastewater Treatment Plant Design • Physical Treatment • Chemical Treatment • Biological Treatment • Residuals Treatment • Schematics and Flow Diagrams • Pollutant Information

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