

## Water Distribution System Handbook (Mechanical Engineering)

By Larry W Mays


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**Water Distribution System Handbook (Mechanical Engineering)** By Larry W Mays

All-in-one, state-of-the-art guide to safe drinking water Civil engineers and anyone else involved in any way with the design, analysis, operation, maintenance or rehabilitation of water distribution systems will find practical guidance in Water Distribution Systems Handbook. Experts selected by Handbook editor Larry W. Mays provide historical, present day, and future perspectives, as well as state-of-the-art details previously available only in specialized journals. You get a comprehensively detailed exploration of every facet of the hydraulics of pressurized flow; piping design and pipeline systems; storage issues; reliability analysis and distribution, and more. Detailed information on the latest technology contributions and on enhancements to the EPANET model are included. You'll also find case studies that range from the small municipal systems found in every U.S. town, to large systems common to great urban centers like New York, London and Paris.

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### Editorial Review

From the Back Cover

#### **CUTTING-EDGE METHODS AND TECHNOLOGIES FROM LEADING EXPERTS**

If you're looking for comprehensive, state-of-the-art help with water distribution systems, you've come to the right place. The only book of its kind, this authoritative and inclusive compendium brings you detailed coverage of the latest methods, materials, techniques, and tools for water distribution systems.

Written by top experts that are members of the American Water Works Association, the American Society of Civil Engineers, and other leading professional organizations, the *Water Distribution Systems Handbook* provides specialists in each area to serve as your consultants. Each chapter provides expert, detailed, professional guidance on an important aspect of water distribution systems.

This key resource will be a trusted ally of engineers, managers, operators, systems analysts, and other water distribution systems professionals for many years to come. A needed reference in a vitally important and much-changed field, the *Water Distribution Systems Handbook* is the right tool at the right time.

#### **THIS UNIQUE, AUTHORITATIVE HANDBOOK GIVES YOU:**

- \* Help with design, analysis, operation, maintenance, and rehabilitation
- \* A one-stop source of tested, top-level answers to many water distribution system questions
- \* The most advanced methods, techniques, and timesaving tips from leaders in the field
- \* Case studies on systems small and large

#### **SYSTEM COMPONENTS:**

Hydraulics

Distribution Design

Pump System Design

Optimization Models

Reliability Analysis

Hydraulic Transient Design

Water Quality

Water Quality Modeling

Computer Models

EPANET Enhancements

Operation

Operation Optimization

Maintenance

Rehabilitation

Replacement

About the Author

**Larry W. Mays** is professor of civil and environmental engineering at Arizona State University and former chair of the department. He was formerly director of the Center for Research in Water Resources at the University of Texas at Austin, where he also held an Engineering Foundation Endowed Professorship. A registered professional engineer in seven states and a registered professional hydrologist, he has served as

consultant to many organizations. A widely published expert on water resources, he wrote *Optimal Control of Hydrosystems* (Marcel Dekker) and was editor in chief of both *Water Resources Handbook* (McGraw-Hill) and *Hydraulic Design Handbook* (McGraw-Hill). Co-author of both *Applied Hydrology* and *Hydrosystems Engineering and Management* published by McGraw-Hill, and was the editor in chief of *Reliability Analysis of Water Distribution Systems* (ASCE), and co-editor of *Computer Modeling of Free-Surface and Pressurized Flows* (Kluwer Academic Publishers). He has published extensively on his research in water resources management.

## **Users Review**

### **From reader reviews:**

#### **Julie Flanagan:**

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#### **Ana Gaskill:**

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#### **Bernard Taylor:**

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