



Urban Stormwater Management Tools (Engineering Reference)

By Larry Mays

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This guide provides coverage of the methods for managing urban stormwater and preventing sewage overflows and flooding. It details the design of basins and detention systems, covers subsurface and wetland issues, and presents a complete methodology for regulating and dealing with sewer overflows.

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Editorial Review

Review

Mays (civil and environmental engineering, Arizona State University) presents material on the design of basins and detention systems for managing stormwater flow in urban environments and on subsurface and wetland issues, and provides a complete methodology for regulating sewer overflow. Coverage encompasses hydrology and hydraulics for excess water management, design of stormwater inlets, hydraulics of sewer systems, design of detention systems, design of infiltration basins for stormwater, and risk/reliability models for design. The book is a reference for engineers, managers, operators, and analysts involved with various aspects of urban stormwater systems..

From the Back Cover

Managing Urban Stormwater Systems

Managing stormwater flow is a particular challenge in urban environments. *Urban Stormwater Management Tools* details the design of basins and detention systems, covers subsurface and wetland issues, and presents a complete methodology for regulating sewer overflow. It includes methods for:

- * Hydrologically and hydraulically analyzing storm water systems
- * Designing storm water inlets, storm sewers, detention systems and infiltration basins
- * Learning about design methods ranging from the rational method to advanced simulation and optimization methods for sewer systems
- * Integrating operations and management considerations into designs
- * Performing risk/reliability analysis of stormwater systems

About the Author

Larry W. Mays is Professor of Civil and Environmental Engineering at Arizona State University where he was the 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 engineer in seven states and a professional hydrologist, he has served as a consultant to many organizations. Professor Mays is author of *Water Resources Engineering* (John Wiley & Sons) and *Optimal Control of Hydrosystems* (Marcel Dekker), co-author of *Applied Hydrology* and *Hydrosystems Engineering and Management* (both from McGraw-Hill) and editor-in-chief of the *Water Resources Handbook*, *Hydraulic Design Handbook*, *Water Distribution Systems Handbook*, *Stormwater Collection Systems Design Handbook*, and the *Urban Water Supply Handbook* (all from McGraw-Hill). The *Urban Water Supply Handbook* received the 2002 Honorable Mention in Engineering Award given by the Association of American Publishers. He is also editor-in-chief of *Reliability Analysis of Water Distribution Systems* (ASCE) and co-editor of *Computer Modeling of Free Surface and Pressurized Flow* (Kluwer Academic Publishers). Among his honors is a distinguished alumnus award from the University of Illinois at Urbana-Champaign in 1999.

Users Review

From reader reviews:

Christopher Barnes:

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Laurie Dunn:

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