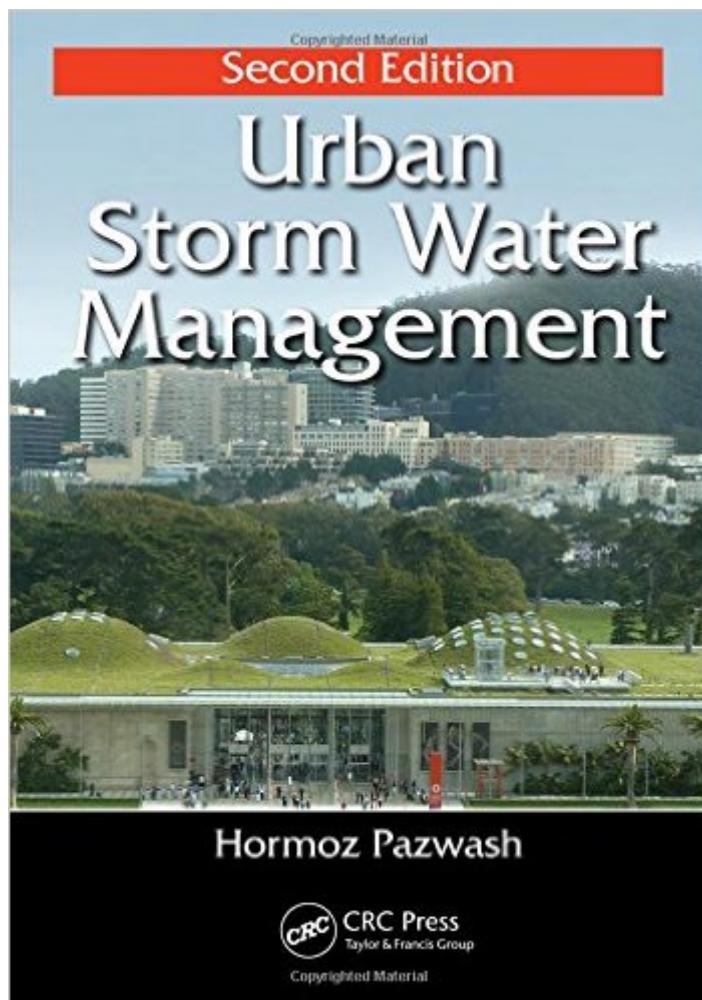


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Urban Storm Water Management, Second Edition



Synopsis

Design Drainage and Storm Water Management Systems Efficiently Urban Storm Water Management, Second Edition covers the design, installation, and maintenance of storm water management systems, addresses the impact of urban development on runoff and infiltration, and focuses on storm water management relative to flooding and water pollution. Recognizing that urbanization increases and accelerates runoff, reduces infiltration, and deteriorates water quality, the author proposes storm water runoff as a resource that can be conserved for reuse. He suggests the reuse of storm water runoff in general, and rainwater from roofs in particular, as a cost-effective means to achieve long-term sustainability. In addition, the book explores green infrastructure as the future of storm water management, and introduces techniques that can help reduce the thermal impacts of storm water management practices. Based on the author's more than thirty years of experience, this book includes numerous examples and case studies illustrating the methods and procedures needed to design, maintain, and understand structural and nonstructural storm water management systems. It covers every component of the storm water runoff process, discusses commonly employed runoff models in the United States, and introduces a physically based model developed by the author. New in This Edition: Provides an updated presentation of urbanization's impact on storm water Presents further analysis of the universal runoff model and the application of this model to non-uniform rainfalls Offers a more detailed presentation of storm water management systems, especially bio-filtration basins Includes a comparative analysis of the effectiveness and costs of best management practices (BMPs) Adds more than twice as many problems as before Contains an in-depth discussion of the means of collecting storm water, such as roof rain for outdoor and certain indoor uses Urban Storm Water Management covers the design of various types of structural storm water management systems, provides new information on storm water management, suggests alternative solutions to storm water runoff problems, and serves as an overall resource for practicing engineers and municipal planners in the design of storm water management elements.

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Customer Reviews

"Very comprehensive coverage of the problems and their solutions." •Sven Erik Jørgensen, Professor Emeritus, University of Copenhagen, Denmark

Hormoz Pazwash received his BS from Tehran University. He continued his graduate studies at the University of Illinois, receiving his MS and Ph.D in civil engineering. After receiving his Ph.D in 1970, he joined the faculty of engineering at Tehran University and, in the next seven years, held the positions of assistant professor, associate professor, and chairman of the Department of Civil Engineering. Dr. Pazwash has been a recipient of various academic awards, including a fellowship at Tehran University and a Fulbright Scholarship at the University of California, Berkley. He is the author of nearly 60 papers and five books.

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