



# Groundwater Hydrology of Springs: Engineering, Theory, Management and Sustainability

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## Groundwater Hydrology of Springs: Engineering, Theory, Management and Sustainability

Groundwater Hydrology of Water Resource Series

Water is an essential environmental resource and one that needs to be properly managed. As the world places more emphasis on sustainable water supplies, the demand for expertise in hydrology and water resources continues to increase. This series is intended for professional engineers, who seek a firm foundation in hydrology and an ability to apply this knowledge to solve problems in water resource management. Future books in the series are: Groundwater Hydrology of Springs (2009), Groundwater Hydrology of River Basins (2009), Groundwater Hydrology of Aquifers (2010), and Groundwater Hydrology of Wetlands (2010).

First utilized as a primary source of drinking water in the ancient world, springs continue to supply many of the world's cities with water. In recent years their long-term sustainability is under pressure due to an increased demand from groundwater users. Edited by two world-renowned hydrologists, Groundwater Hydrology of Springs: Theory, Management, and Sustainability will provide civil and environmental engineers with a comprehensive reference for managing and sustaining the water quality of Springs. With contributions from experts from around the world, this book covers many of the world's largest springs, providing a unique global perspective on how engineers around the world are utilizing engineering principles for coping with problems such as: mismanagement, overexploitation and their impacts both water quantity and quality. The book will be divided into two parts: part one will explain the theory and principles of hydrology as they apply to Springs while part two will provide a rare look into the engineering practices used to manage some of the most important Springs from around the world.

Description of the spring and the aquifer feeding it

Latest groundwater and contaminant transport models

Description of sources of aquifer use.

Understanding of contamination and/or possible contamination.

A plan for management and sustainability

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