

# Integrated Urban Water Management



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The Integrated Urban Water Management (IUWM) is an emerging approach to managing the entire urban water cycle in an integrated way, which is key to achieving the sustainability of urban water resources and services. The IUWM incorporates: the systematic consideration of the various dimensions of water, including surface and groundwater resources, quality and quantity issues; the implication that while water is a system it is also a component which interacts with other systems; and the interrelationships between water and social and economic development. Integrated Urban Water Management: Arid and Semi-Arid Regions - the outcome of UNESCO's International Hydrological Programme project on the topic - examines the integrated management of water resources in urban settings, focusing on issues specific to arid and semi-arid regions and on what make them different from other regions. The urban water management system is considered herein as two integrated major entities; water supply management and water excess management. The first six chapters provide an overview of the various aspects of IUWM in arid and semi-arid regions, with emphasis on water supply technologies, such as artificial recharge, water transfers, desalination, and harvesting of rainfall. Water excess management is examined in the context of both the stormwater management system and the floodplain management system. Case studies from developed and developing countries are presented in order to

emphasize the various needs and challenges of water management in urban environments in arid and semi-arid regions around the world.

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