



# Smart Water Technologies and Techniques: Data Capture and Analysis for Sustainable Water Management

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## DESCRIPTION

### An Insightful Examination of Smart Water Systems and Technology

Inland water supplies are under increasing pressure. Climate, social, and demographic change have begun tipping the balance toward demand management, as supplies begins to dwindle. Water and wastewater infrastructure will play a central role in the management of this increasingly valuable resource, and *Smart Water Technologies and Techniques: Data Capture and Analysis for Sustainable Water Management* provides insight on a key part of the solution.

Smart water applications optimise the way water and wastewater services are used, allowing more efficient allocation of limited resources while adding flexibility to the system. Automation, real-time data capture, and rapid interpretation allow utilities and users to monitor, manage, and act on the part of the water cycle that matters to them, minimizing costs of providing service through optimal use of extant assets.

This book brings together the core principles, key developments, and current state-of-the-art into a single resource that:

- Considers smart water within operational, economic, policy, and regulatory contexts
- Provides a comprehensive overview of the smart water concept and the latest advances in the field
- Examines key considerations and objections raised to date
- Discusses the potential value of smart water, from perception to policy

- Shows how smart water systems can optimize efficiency and flexibility of water and wastewater management
- Explores future directions for smart water development in the pursuit of balanced supply and demand

Although primarily designed for water supply and sanitation, smart water systems may be applied to irrigation, reservoir and dam management, inland water flows, and more, making it a valuable asset as water scarcity begins to spread around the globe. This book answers the questions, assuages concerns, and explains the technology that could revolutionize the way water is accessed and supplied.

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## ABOUT THE AUTHOR

**DAVID A. LLOYD OWEN** is the managing director of Envisager Limited. He advises governments, multilateral institutions and financiers on water policy, especially in relating to sustainability, economics and regulation. He has written eight books on water management and markets.

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