



Advances in Control and Automation of Water Systems

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Control and automation of water systems is one of the branches of fluid mechanics and hydraulics that uses numerical methods and algorithms to solve and analyze problems that involve fluid flows. Computers are used to perform the millions of calculations required to simulate the interaction of liquids and gases with surfaces defined by boundary conditions. **Advances in Control and Automation of Water Systems** presents topical research in the study of control and automation of water systems.

The editors use the simulation of a water hammer (or fluid hammer) as the basis for demonstrating computational techniques used for the processing and automation of water systems. The simulation shows and explains a variety of data analysis techniques and complex calculations that involve many elements of water systems, such as

- flow
- minimum and maximum pressure
- automation
- heat and mass transfer
- predicting failure
- and more.

This book provides a broad understanding of the main computational techniques used for processing control and automation of water systems. The theoretical background to a number of techniques is introduced, and general data analysis techniques and examining the application of techniques in an industrial setting, including current practices and current research, are considered. The book also provides practical experience of commercially available systems and includes a small-scale water systems related projects.

This book provides innovative chapters on the growth of educational, scientific, and industrial research activities among mechanical engineers and international academia in the water industry. New methods and novel applications of existing methods are discussed that further the understanding of the structural behavior of new and advanced systems.

This book presents significant research reporting new methodologies and important applications in the fields of automation and control as well as the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for hydraulic software and mechanical engineering.

The research and development presented in the book will have significant potential applications in several disciplines of hydraulic and mechanical engineering.

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