1. Record Nr. UNINA9910462710003321

| | |
|---|---|
| Titolo | Advances in control and automation of water systems / / Kaveh Hariri Asli. [et al.] |
| Pubbl/distr/stampa | Toronto : , : Apple Academic Press, , 2013 |
| ISBN | 0-429-09754-9<br>1-4665-5929-2 |
| Descrizione fisica | 1 online resource (187 p.) |
| Altri autori (Persone) | AsliKaveh Hariri |
| Disciplina | 628.1 |
| Soggetti | Water-supply - Automation<br>Water quality management - Automation<br>Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Front Cover; Contents; List of Contributors; List of Abbreviations; Preface; Chatper 1: A Numerical Exploration of Transient Decay Mechanisms in Water Distribution Systems; Chapter 2: Mathematical Modeling of Hydraulic Transients in Simple Systems; Chapter 3: Modeling One and Two-phase Water Hammer Flows; Chapter 4: Water Hammer and Hydrodynamics' Instability; Chapter 5: Hadraulic Flow Control in Binary Mixtures; Chapter 6: An Efficient Accurate Shock-capturing Scheme for Modeling Water Hammer Flows; Chapter 7; Applied Hydraulic Transients: Automation and Advanced Control Chapter 8: Improved Numerical Modeling for Perturbations in Homogeneous and Stratified FlowsChapter 9: Computational Model for Water Hammer Disaster; Chapter 10: Heat and Mass Transfer in Binary Mixtures: A Computational Approach; Back Cover |
| Sommario/riassunto | Control and automation of water systems in 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