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Open-Channel Flow M Hanif Chaudhry 2007-12-04 Open Channel Flow, 2nd edition is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

Hydraulic Machinery and Cavitation Enrique Cabrera 2015-02-27 Hydraulic machinery such as turbines and pumps is widely used around the world. Related topics concerning design, operation and maintenance are of relevant interest. In this context, cavitation is a phenomenon to be taken into account, and this was treated in the XVIII IAHR Symposium on Hydraulic Machinery and Cavitation which took place in Valencia, Spain, 16th-19th September, 1996 and which was hosted by the Polytechnic University of Valencia. The proceedings of the Symposium have been published in two volumes. In this first volume, the papers included cover the following topics: Hydraulic Turbines, Analysis and Design Hydraulic Pumps Hydraulic Elements, Dynamic Characterization and Hydraulic Behaviour Cavitation and Sand Erosion In the second volume, the papers included cover the following topics: Hydraulic Transients and Control Systems Related to Hydraulic Machinery and Plants Oscillatory and Vibration Problems in Hydraulic Machinery and Power Stations Experimental Investigations related to Hydraulic Machinery and its Applications Practical Applications of the Hydraulic Machinery Monitoring, Predictive Maintenance and Refurbishment The 119 papers presented at the Symposium, from research groups, consulting companies and manufacturers, constitute an important collection for investigators, engineers and technicians who are interested in updated information on hydraulic machinery. This book is intended to be a reference text comprising the latest innovations on this subject.

Fluid Mechanics and Heat Transfer Kaveh Hariri Asli 2015-06-10 This valuable new book focuses on new methods and techniques in fluid mechanics and heat transfer in mechanical engineering. The book includes the research of the authors on the development of optimal mathematical models and also uses modern computer technology and mathematical methods for the analysis of nonlinear dynamic processes. It covers technologies applicable to both fluid mechanics and heat transfer problems, which include a combination of

physical, mechanical, and thermal techniques. The authors develop a new method for the calculation of mathematical models by computer technology, using parametric modeling techniques and multiple analyses for mechanical system. The information in this book is intended to help reduce the risk of system damage or failure. Included are sidebar discussions, which contain information and facts about each subject area that help to emphasize important points to remember.

Computational Mechanics '95 S.N. Atluri 2013-11-11 AI!, in the earlier conferences (Tokyo, 1986; Atlanta, 1988, Melbourne, 1991; and Hong Kong, 1992) the response to the call for presentations at ICES-95 in Hawaii has been overwhelming. A very careful screening of the extended abstracts resulted in about 500 paper being accepted for presentation. Out of these, written versions of about 480 papers reached the conference secretariat in Atlanta in time for inclusion in these proceedings. The topics covered at ICES-95 range over the broadest spectrum of computational engineering science. The editors thank the international scientific committee, for their advice and encouragement in making ICES-95 a successful scientific event. Special thanks are expressed to the International Association for Boundary Elements Methods for hosting IABEM-95 in conjunction with ICES-95. The editors here express their deepest gratitude to Ms. Stacy Morgan for her careful handling of a myriad of details of ICES-95, often times under severe time constraints. The editors hope that the readers of this proceedings will find a kaleidoscopic view of computational engineering in the year 1995, as practiced in various parts of the world. Satya N. Atluri Atlanta, Georgia, USA Genki Yagawa Tokyo, Japan Thomas A. Cruse Nashville, TN, USA Organizing Committee Professor Genki Yagawa, University of Tokyo, Japan, Chair Professor Satya Atluri, Georgia Institute of Technology, U.S.A.

Gas Well Testing Handbook Amanat U. Chaudhry 2003 "Gas Well Testing Handbook deals exclusively with the theory and practice of gas well testing, including pressure transient analysis technique, analytical methods required to interpret well behavior, evaluating reservoir quality, reservoir simulation, and production forecasts. A highly practical volume, this book is written for drilling engineers, well logging engineers, reservoir engineers, engineering students, geologists, and geophysicists."--BOOK JACKET

Hydraulics of Pipeline Systems Bruce E. Larock 1999-09-28 The first of its kind, this modern, comprehensive text covers both analysis and design of piping systems. The authors begin with a review of basic hydraulic principles, with emphasis on their use in pumped pipelines, manifolds, and the analysis and design of large pipe networks. After the reader obtains an understanding of how these principles are implemented in computer solutions for steady state problems, the focus then turns to unsteady hydraulics. These are covered at three levels:

Guidelines to Hydraulic Transient Analysis of Pumping Systems Stanislav Pejović 1992

Fluid Transients in Systems E. Benjamin Wylie 1993 Covers flow concepts, differential equations for transient flow, transient flows, complex systems, open-channel transients, and other topics

Numerical Heat Transfer and Fluid Flow D. Srinivasacharya 2018-12-13 This book comprises selected papers

from the International Conference on Numerical Heat Transfer and Fluid Flow (NHTFF 2018), and presents the latest developments in computational methods in heat and mass transfer. It also discusses numerical methods such as finite element, finite difference, and finite volume applied to fluid flow problems. Providing a good balance between computational methods and analytical results applied to a wide variety of problems in heat transfer, transport and fluid mechanics, the book is a valuable resource for students and researchers working in the field of heat transfer and fluid dynamics.

Hydroinformatics Tools for Planning, Design, Operation and Rehabilitation of Sewer Systems J. Marsalek 2013-04-17 Hydroinformatics systems are systems that combine computational hydraulic modelling with information systems (including knowledge-based systems). They are gaining rapid acceptance in the areas of environmental planning, design and management. The present book focuses exclusively on sewage systems, starting with their planning and then going on to discuss their design, operation and rehabilitation. The very experienced authors discuss business and information needs in the management of urban drainage, tools for collecting and archiving such data, and their use in modelling catchment hydrology, sewer systems hydraulics, wastewater quality, wastewater treatment plant operation, and receiving waters. The control and operation of sewer systems in real time is described, followed by a discussion of their maintenance and rehabilitation. Intelligent decision support systems for managing the urban drainage business process are presented. Audience: Researchers into sewer design, municipal engineers, planners and managers interested in an innovative approach to all aspects of the planning, design and operation of sewer systems.

Advances in Water Resources & Hydraulic Engineering Changkuan Zhang 2010-07-28 "Advances in Water Resources and Hydraulic Engineering - Proceedings of 16th IAHR-APD Congress and 3rd Symposium of IAHR-ISHS" discusses some serious problems of sustainable development of human society related to water resources, disaster caused by flooding or draught, environment and ecology, and introduces latest research in river engineering and fluvial processes, estuarine and coastal hydraulics, hydraulic structures and hydropower hydraulics, etc. The proceedings covers new research achievements in the Asian-Pacific region in water resources, environmental ecology, river and coastal engineering, which are especially important for developing countries all over the world. This proceedings serves as a reference for researchers in the field of water resources, water quality, water pollution and water ecology. Changkuan Zhang and Hongwu Tang both are professors at Hohai University, China.

Pumps, Electromechanical Devices and Systems Applied to Urban Water Management Enrique Cabrera 2003

Mechanical Engineers' Handbook, Volume 4 Myer Kutz 2015-03-02 The engineer's ready reference for mechanical power and heat Mechanical Engineer's Handbook provides the most comprehensive coverage of the entire discipline, with a focus on explanation and analysis. Packaged as a modular approach, these books are designed to be used either individually or as a set, providing engineers with a thorough, detailed, ready reference on topics that may fall outside their scope of expertise. Each book provides discussion and examples as opposed to straight data and calculations, giving readers the immediate background they need while pointing them toward more in-depth information as necessary. Volume 4: Energy and Power covers the essentials of

fluids, thermodynamics, entropy, and heat, with chapters dedicated to individual applications such as air heating, cryogenic engineering, indoor environmental control, and more. Readers will find detailed guidance toward fuel sources and their technologies, as well as a general overview of the mechanics of combustion. No single engineer can be a specialist in all areas that they are called on to work in the diverse industries and job functions they occupy. This book gives them a resource for finding the information they need, with a focus on topics related to the production, transmission, and use of mechanical power and heat. Understand the nature of energy and its proper measurement and analysis. Learn how the mechanics of energy apply to furnaces, refrigeration, thermal systems, and more. Examine the pros and cons of petroleum, coal, biofuel, solar, wind, and geothermal power. Review the mechanical parts that generate, transmit, and store different types of power, and the applicable guidelines. Engineers must frequently refer to data tables, standards, and other list-type references, but this book is different; instead of just providing the answer, it explains why the answer is what it is. Engineers will appreciate this approach, and come to find *Volume 4: Energy and Power* an invaluable reference.

Essentials of Hydraulics Pierre Y. Julien 2022-05-19 Written for a one-semester course in hydraulics, this concise textbook is rooted in the fundamental principles of fluid mechanics and aims to promote sound hydraulic engineering practice. Basic methods are presented to underline the theory and engineering applications, and examples and problems build in complexity as students work their way through the textbook. Abundant worked examples and calculations, real-world case studies, and revision exercises, as well as precisely crafted end-of-chapter exercises ensure students learn exactly what they need in order to consolidate their knowledge and progress in their career. Students learn to solve pipe networks, optimize pumping systems, design pumps and turbines, solve differential equations for gradually-varied flow and unsteady flow, and gain knowledge of hydraulic structures like spillways, gates, valves, and culverts. An essential textbook for intermediate to advanced undergraduate and graduate students in civil and environmental engineering.

Pumps as Turbines Armando Carravetta 2017-10-24 This book provides users, pump manufacturers, engineers, researchers and students with extensive information about pump's behavior in reverse operation. It reports on cutting-edge methods for selecting the proper PAT and improving PAT's efficiency, discusses PAT's reliability, economic issues and environmental impact as well. The book describes in detail electromechanical equipment of PAT systems, their installation and operation, and gives important practical insight into the use of PAT in water transmission and distribution systems, as part of thermal power plants and cooling systems, in oil distribution systems and other systems as well. It reports on different types on PAT control modes as well as on numerical methods useful for PAT analysis and implementation. All in all, the book represents a comprehensive practice-oriented reference-guide to design engineers, as well as PAT general users and manufacturers. It also provides researchers with extensive technical information on the use of PAT thus fostering new discussions and ideas to improve current methods and cope with future challenges.

Water Hammer Bruce Sharp 1995-12-01 Water hammer, or the study of fluid transient behaviour, is one of the most common problems in the water engineering community. This book covers the many causes and solutions in a practical way and is an essential reference for all those concerned with the flow of liquids, not

just water, in pipe systems. It follows on from the authors' previous monograph on the problems and solutions of water hammer and presents common problems in the form of case studies. This is an interesting and useful read for practising engineers working in this area and it will enable them to make comparisons with their own problems. Also the practical nature of the book makes it useful for civil engineering departmental libraries and departments where hydraulic design is taught.

Applied Hydraulic Transients M. Hanif Chaudhry 1987

Hydraulic Engineering John A. Roberson 1993 This book has been purposefully suited for students of civil engineering and computational hydraulics at the graduate and undergraduate levels as well as professionals in the field of basic fluid mechanics and hydraulic engineering, i.e. for the civil engineers and builders. However, this book can also be chosen by all those who would like to independently pursue the area of computational hydraulics. The topics have been presented clearly and completely, enough to develop an in-depth understanding. To enhance the learning and grasping process liberal use of photos, computer programs, line drawings and examples have been made. While the basic fluid mechanics topics have been retained to provide continuity in the development of certain areas, such as open channel flow and flow in closed conduits, the reader will be able to use it in modern engineering practice with emphasis on fundamental principles and presentation of updated analytical procedures for solving problems. This book is based on notes successfully used over several years in the study course of hydraulic engineering at Washington State University. The material has been tested with feedback from experienced professionals of this field.

Applied Hydraulic Transients Mihail Popescu 2003-01-01 This book treats the problem of transient hydraulic computation, for hydroelectric plants and pumping stations, with an emphasis on numerical methods. The topics covered include: the waterhammer in hydraulic systems under pressure; experimental results concerning the waterhammer; protection of pumping stations with reference to the waterhammer; hydraulic resonance in hydroelectric power plant and pumping stations; mass oscillation in hydraulic surge systems; hydraulic stability of systems endowed with surge tanks; experimental results in the study of mass oscillations; hydroelectric power plants and pumping stations designed in complex hydraulic schemes; and computation of unsteady motions in the intermediate domain between rapid and slow motions. This book is not a standard monograph based on previously published material, but is primarily grounded on the theoretical and applied results obtained by authors during more than 20 years of practice. It considers the problems of hydraulic computation as encountered in the design of a significant number of hydroelectric power plants and pumping stations in Romania.

Advances in Acoustics and Vibration II Tahar Fakhfakh 2018-09-03 The book provides readers with a snapshot of recent research and industrial trends in field of industrial acoustics and vibration. Each chapter, accepted after a rigorous peer-review process, reports on a selected, original piece of work presented and discussed at the Second International Conference on Acoustics and Vibration (ICAV2018), which was organized by the Tunisian Association of Industrial Acoustics and Vibration (ATAVI) and held March 19-21, in Hammamet, Tunisia. The contributions cover advances in both theory and practice in a variety of subfields, such as: smart

materials and structures; fluid-structure interaction; structural acoustics as well as computational vibro-acoustics and numerical methods. Further topics include: engines control, noise identification, robust design, flow-induced vibration and many others. This book provides a valuable resource for both academics and professionals dealing with diverse issues in applied mechanics. By combining advanced theories with industrial issues, it is expected to facilitate communication and collaboration between different groups of researchers and technology users.

Applied Research in Hydraulics and Heat Flow Kaveh Hariri Asli 2014-05-14 *Applied Research in Hydraulics and Heat Flow* covers modern subjects of mechanical engineering such as fluid mechanics, heat transfer, and flow control in complex systems as well as new aspects related to mechanical engineering education. The chapters help to enhance the understanding of both the fundamentals of mechanical engineering and their application to the solution of problems in modern industry. The book includes the most popular applications-oriented approach to engineering fluid mechanics and heat transfer. It offers a clear and practical presentation of all basic principles of fluid mechanics and heat transfer, tying theory directly to real devices and systems used in mechanical and chemical engineering. It presents new procedures for problem-solving and design, including measurement devices and computational fluid mechanics and heat transfer. This book is suitable for students, both in upper-level undergraduate and graduate mechanical engineering courses. The book also serves as a useful reference for academics, hydraulic engineers, and professionals in fields related to mechanical engineering who want to review basic principles and their applications in hydraulic engineering systems. This fundamental treatment of engineering hydraulics balances theory with practical design solutions to common engineering problems. The authors examine the most common topics in hydraulics, including hydrostatics, pipe flow, pipelines, pipe networks, pumps, hydraulic structures, water measurement devices, and hydraulic similitude and model studies. A glossary of terms, case studies, list of abbreviations, and recent references are included.

Oil Well Testing Handbook Amanat Chaudhry 2004-01-24 *Oil Well Testing Handbook* is a valuable addition to any reservoir engineer's library, containing the basics of well testing methods as well as all of the latest developments in the field. Not only are "evergreen" subjects, such as layered reservoirs, naturally fractured reservoirs, and wellbore effects, covered in depth, but newer developments, such as well testing for horizontal wells, are covered in full chapters. Covers real-life examples and cases The most up-to-date information on oil well testing available The perfect reference for the engineer or textbook for the petroleum engineering student

Handbook of Fluid Dynamics Richard W. Johnson 2016-04-06 *Handbook of Fluid Dynamics* offers balanced coverage of the three traditional areas of fluid dynamics-theoretical, computational, and experimental-complete with valuable appendices presenting the mathematics of fluid dynamics, tables of dimensionless numbers, and tables of the properties of gases and vapors. Each chapter introduces a different fluid

Water Hammer Research Kaveh Hariri Asli 2013-01-22 This book provides a broad understanding of the main computational techniques used for water hammer research in 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 small-scale water systems related projects.

Applied hydraulic transients 2ed M. H. Chaudhry 1987

Advances in Acoustics and Vibration III Nabih Feki 2021-05-29 The book provides readers with a snapshot of recent research and industrial trends in field of industrial acoustics and vibration. Each chapter, accepted after a rigorous peer-review process, reports on a selected, original piece of work presented and discussed at the Third International Conference on Acoustics and Vibration (ICAV2021), which was organized by the Tunisian Association of Industrial Acoustics and Vibration (ATAVI) and held online on March 15-16, 2021, from Sfax, Tunisia. The contributions cover advances in both theory and practice in a variety of subfields, such as: smart materials and structures; fluid-structure interaction; structural acoustics as well as computational vibro-acoustics and numerical methods. Further topics include: engines control, noise identification, robust design, flow-induced vibration and many others. This book provides a valuable resource for both academics and professionals dealing with diverse issues in applied mechanics. By combining advanced theories with industrial issues, it is expected to facilitate communication and collaboration between different groups of researchers and technology users.

Applied Hydraulic Transients M Hanif Chaudhry 2013-09-24 Applied Hydraulic Transients, 3rd Edition covers hydraulic transients in a comprehensive and systematic manner from introduction to advanced level and presents various methods of analysis for computer solution. The book is suitable as a textbook for senior-level undergraduate and graduate students as well as a reference for practicing engineers and researchers. The field of application of the book is very broad and diverse and covers areas such as hydroelectric projects, pumped storage schemes, water-supply systems, cooling-water systems, oil pipelines and industrial piping systems. A strong emphasis is given to practical applications: several case studies, problems of applied nature, and design criteria are included. This will help the design engineers and introduce the students to real-life projects. Up-to-date references are included at the end of each chapter.

Theory of Water-hammer Lorenzo Allievi 1925

Applied Mechanics Reviews 1997

Environmental Engineering Lucjan Pawlowski 2006-11-16 Environmental engineering protects the conditions of a safe environment, its role being crucial in eliminating ecological threats. It has an interdisciplinary character, utilising principles from biology, chemistry, biochemistry and physics to neutralize pollutants in all facets of the environment. Environmental engineering deals with a wide range of technical and technological problems, including the design and maintenance of water supply, sewage disposal, heating, ventilation and air-conditioning in buildings. This proceedings aims to assess the state of scientific research in various areas of

environmental engineering; to evaluate organizational, technical and technological progress in contributing to ecological security; and to determine the place of environmental engineering in sustainable development, taking into account current political and economic conditions. Environmental Engineering is an invaluable source of information and ideas for the international environment engineering scientific community.

Mathematical Concepts for Mechanical Engineering Design Kaveh Hariri Asli 2016-04-19 *Mathematical Concepts for Mechanical Engineering Design* provides a broad understanding of the main computational techniques used for simulation of water distribution networks and water transmission systems. It introduces the theoretical background to a number of techniques and general data analysis techniques. The book also examines the application of techniques in an industrial setting, including current practices and current research, are presented. It provides practical experience of commercially available systems and includes a small-scale water systems related projects. The authors illustrate the concepts and techniques covered in the book by using a calculation that simulates water distribution networks and water transmission systems. The book also covers significant research on new methodologies and important applications in the fields of automation and control as well as includes the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for hydraulic software and mechanical engineering. The book will be informative and useful to both academics and mechanical engineers in various industrial sectors, including hydraulic and mechanical engineering.

Hydraulic Machinery and Cavitation Enrique Cabrera 1996 In the second volume, the papers included the following topics: hydraulic transients and control systems related to hydraulic machinery and plants; and oscillatory and vibration problems in hydraulic machinery and power stations.

Applied Hydraulic Transients M. Hanif Chaudhry 2013-09-24 *Applied Hydraulic Transients*, 3rd Edition covers hydraulic transients in a comprehensive and systematic manner from introduction to advanced level and presents various methods of analysis for computer solution. The book is suitable as a textbook for senior-level undergraduate and graduate students as well as a reference for practicing engineers and researchers. The field of application of the book is very broad and diverse and covers areas such as hydroelectric projects, pumped storage schemes, water-supply systems, cooling-water systems, oil pipelines and industrial piping systems. A strong emphasis is given to practical applications: several case studies, problems of applied nature, and design criteria are included. This will help the design engineers and introduce the students to real-life projects. Up-to-date references are included at the end of each chapter.

APAC 2019 Nguyen Trung Viet 2019-09-25 This book presents selected articles from the International Conference on Asian and Pacific Coasts (APAC 2019), an event intended to promote academic and technical exchange on coastal related studies, including coastal engineering and coastal environmental problems, among Asian and Pacific countries/regions. APAC is jointly supported by the Chinese Ocean Engineering Society (COES), the Coastal Engineering Committee of the Japan Society of Civil Engineers (JSCE), and the Korean Society of Coastal and Ocean Engineers (KSCOE). APAC is jointly supported by the Chinese Ocean Engineering Society (COES), the Coastal Engineering Committee of the Japan Society of Civil Engineers

(JSCE), and the Korean Society of Coastal and Ocean Engineers (KSCOE).

Handbook of Research for Fluid and Solid Mechanics Kaveh Hariri Asli 2017-11-23 This valuable volume provides a broad understanding of the main computational techniques used for processing reclamation of fluid and solid mechanics. The aim of these computational techniques is to reduce and eliminate the risks of mechanical systems failure in hydraulic machines. Using many computational methods for mechanical engineering problems, the book presents not only a platform for solving problems but also provides a wealth of information to address various technical aspects of troubleshooting of mechanical system failure. The focus of the book is on practical and realistic fluids engineering experiences. Many photographs and figures are included, especially to illustrate new design applications and new instruments.

Applied Hydraulic Transients Chaudhary M. H. 1970

Design and Modeling of Mechanical Systems - V Lassaad Walha 2022-09-20 This book offers a collection of original peer-reviewed contributions presented at the 9th International Congress on Design and Modeling of Mechanical Systems (CMSM'2021), held on December 20-22, 2021, in Hammamet, Tunisia. It reports on research findings, advanced methods and industrial applications relating to mechanical systems, materials and structures, and machining. It covers vibration analysis, CFD modeling and simulation, intelligent monitoring and control, including applications related to industry 4.0 and additive manufacturing. Continuing on the tradition of the previous editions, and with a good balance of theory and practice, the book offers a timely snapshot, and a useful resource for both researchers and professionals in the field of design and modeling of mechanical systems.

Applied Chemistry and Chemical Engineering, Volume 1 A. K. Haghi 2017-12-22 This new book brings together innovative research, new concepts, and novel developments in the application of informatics tools for applied chemistry and computer science. It presents a modern approach to modeling and calculation and also looks at experimental design in applied chemistry and chemical engineering. The volume discusses the developments of advanced chemical products and respective tools to characterize and predict the chemical material properties and behavior. Providing numerous comparisons of different methods with one another and with different experiments, not only does this book summarize the classical theories, but it also exhibits their engineering applications in response to the current key issues. Recent trends in several areas of chemistry and chemical engineering science, which have important application to practice, are discussed. *Applied Chemistry and Chemical Engineering: Volume 1: Mathematical and Analytical Techniques* provides valuable information for chemical engineers and researchers as well as for graduate students. It demonstrates the progress and promise for developing chemical materials that seem capable of moving this field from laboratory-scale prototypes to actual industrial applications. Volume 2 will focus principles and methodologies in applied chemistry and chemical engineering.

Hydraulic Transients and Computations Zh. Zhang 2020-02-06 This book describes the fundamental phenomena of, and computational methods for, hydraulic transients, such as the self-stabilization effect,

restriction of the Joukowski equation, real relations between the rigid and elastic water column theories, the role of wave propagation speed, mechanism of the attenuation of pressure fluctuations, etc. A new wave tracking method is described in great detail and, supported by the established conservation and traveling laws of shockwaves, offers a number of advantages. The book puts forward a novel method that allows transient flows to be directly computed at each time node during a transient process, and explains the differences and relations between the rigid and elastic water column theories. To facilitate their use in hydropower applications, the characteristics of pumps and turbines are provided in suitable forms and examples. The book offers a valuable reference guide for engineers and scientists, helping them make transient computations for their own programming, while also contributing to the final standardization of methods for transient computations.

Improving Efficiency and Reliability in Water Distribution Systems Enrique Cabrera 2013-03-14 This book contains the lectures given in the International Course "Improving efficiency and reliability in water supply systems", hosted and sponsored by the Menendez Pelayo International University (U.I.M.P.) and co-sponsored by Aguas de Valencia, the British Council and the EC Cornett and Erasmus programmes. The short course took place in Valencia (Spain) in November 1994, with an attendance of more than one hundred delegates. We must not only acknowledge and thank Dr. Joaquin Azagra, as UIMP Director, but also his collaborators D. Luis Moreno and Lidia Lopez for their support in the preparation of the Course and during the course taking place. UIMP sponsorship allowed us to assemble in Valencia an eminent cadre of lecturers coming from all over the world, that covered in an ordered and precise fashion some of the more relevant aspects on efficiency and reliability in water supply systems. We are very thankful to all these leading lecturers for their invaluable cooperation. The publication of this book and the Spanish edition as well, have been made possible thanks to the sponsorship of both Polytechnic University of Valencia throughout its Chancellor, Justo Nieto, and Aguas de Valencia throughout its General Director Alvaro Aguirre. We must also thank Kluwer Academic Publishers and especially their Publisher Petra van Steenbergen for her assistance, careful presentation and production of the book.