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Sediment transport in irrigation canals influences to a great extent the sustainability of an irrigation system. Unwanted erosion or deposition will not only increase maintenance costs, but may also lead to unfair, unreliable and unequitable distribution of irrigation water to the end users. Proper knowledge of the characteristics, including behaviour and transport of sediment will help to design irrigation systems, plan efficient and reliable water delivery schedules, to have a controlled deposition of sediments, to estimate and arrange maintenance activities, etc. The main aim of these lecture notes is to present a detailed analysis and physical and mathematical descriptions of sediment transport in irrigation canals and to describe the mathematical model SETRIC that predicts the sediment transport, deposition and entrainment rate as function of time and place for various flow conditions and sediment inputs. The model is typically suited for the simulation of sediment transport under the particular conditions of non-wide irrigation canals where the flow and sediment transport are strongly determined by the operation of the flow control structures. The lecture notes will contribute to an improved understanding of the behaviour of sediments in irrigation canals. They will also help to decide on the appropriate design of the system, the water delivery plans, to evaluate design alternatives and to achieve an adequate and reliable water supply to the farmers.

A comprehensive reference covering all practical applications of hydraulics technology. Table of Contents: Hydrology; Basic Hydraulics; Hydraulic Models;

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This book is specially designed for the graduate students of civil engineering. The text covers the syllabi requirements of almost all technical universities. A lucid pattern, both in terms of language and content, has been adopted throughout the text. This book will prove to be a boon to the students preparing for engineering and other competitive examinations. Key Features \* Sufficient conceptual information is included for a thorough understanding of the subject. \* Includes a large number of worked examples, summary, end of topic questions, problems, and multiple choice questions. \* Lays foundation on the practical applicability of hydraulic engineering to the real life situations. \* Includes up-to-date coverage of topics in hydraulic engineering.

Introduction to Urban Water Distribution comprises the core training material used in the Master of Science programme in Urban Water and Sanitation at IHE Delft Institute for Water Education. Participants in this programme are professionals working in the water and sanitation sector from over forty, predominantly developing, countries from all parts of the world. Outside this diverse audience, the most appropriate readers are those who know little or nothing about the subject. However, experts dealing with advanced problems can also use it as a refresher of their knowledge, as well as the teachers in this field may like to use some of the contents in their educational programmes. The general focus in the book is on understanding the steady-state hydraulics that forms the basis of hydraulic design and computer modelling applied in water distribution. The main purpose of the workshop problems and three computer exercises is to develop a temporal and spatial perception of the main hydraulic parameters in the system for given layout and demand scenarios. Furthermore, the book contains a detailed discussion on water demand, which is a fundamental element of any network analysis, and general principles of network construction, operation and maintenance. The book includes nearly 700 illustrations and the accompanying electronic materials contain all the spreadsheet applications and the network model files used in solving the workshop problems and computer exercises. This book is the first volume of the Introduction to Urban Water Distribution, 2nd Edition set.

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.

A survey of the problems encountered in flood control and drainage engineering. Among the topics studied are: estimation of design flood; flood routing through reservoirs and channels; design of spillways; and flood mitigation through planning of reservoir capacities and operation of reservoirs.

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This classic text, now in its sixth edition, combines a thorough coverage of the basic principles of civil engineering hydraulics with a wide-ranging treatment of practical, real-world applications. It now includes a powerful online resource with worked solutions for chapter problems and solution spreadsheets for more complex problems that may be used as templates for similar issues. *Hydraulics in Civil and Environmental Engineering* is structured into two parts to deal with principles and more advanced topics. The first part focuses on fundamentals, such as hydrostatics, hydrodynamics, pipe and open channel flow, wave theory, physical modelling, hydrology and sediment transport. The second part illustrates engineering applications of these principles to pipeline system design, hydraulic structures, river and coastal engineering, including up-to-date environmental implications, as well as a chapter on computational modelling, illustrating the application of computational simulation techniques to modern design, in a variety of contexts. New material and additional problems for solution have been added to the chapters on hydrostatics, pipe flow and dimensional analysis. The hydrology chapter has been revised to reflect updated UK flood estimation methods, data and software. The recommendations regarding the assessment of uncertainty, climate change predictions, impacts and adaptation measures have been updated, as has the guidance on the application of computational simulation techniques to river flood modelling. Andrew Chadwick is an honorary professor of coastal engineering and the former associate director of the Marine Institute at the University of Plymouth, UK. John Morfett was the head of hydraulics research and taught at the University of Brighton, UK. Martin Borthwick is a consultant hydrologist, formerly a flood hydrology advisor at the UK 's Environment Agency, and previously an associate professor at the University of Plymouth, UK.

This text covers river training techniques. Divided into two parts, it discusses properties of rivers and fundamentals of river engineering and flood protection.

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