



**Elementary
Hydraulics**

James F. Cruise
Mohsen M. Sherif
Vijay P. Singh

Elementary Hydraulics Solutions Cruise

**James F. Cruise, Mohsen M.
Sherif, Vijay P. Singh**



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Elementary Hydraulics James F. Cruise, Mohsen M. Sherif, Vijay P. Singh, 2007 Elementary Hydraulics is written for the undergraduate level and contains material to appeal to a diversified class of students. The book is divided into three parts: blends fluid mechanics, hydraulic science, and hydraulics engineering. The first part of the text draws upon fluid mechanics and summarizes the concepts deemed essential to the teaching of hydraulics. The second part builds on the first section while discussing the science of hydraulics. The third section looks at the engineering practice of hydraulics and illustrates practical applications of the material covered in the text. In addition to these applications, the text contains a number of numerical problems and a reading aid at the end of each chapter to enhance student learning.

Homotopy-Based Methods in Water Engineering Manotosh Kumbhakar, Vijay P. Singh, 2023-07-20 Most complex physical phenomena can be described by nonlinear equations, specifically differential equations. In water engineering, nonlinear differential equations play a vital role in modeling physical processes. Analytical solutions to strong nonlinear problems are not easily tractable, and existing techniques are problem specific and applicable for specific types of equations. Exploring the concept of homotopy from topology, different kinds of homotopy based methods have been proposed for analytically solving nonlinear differential equations given by approximate series solutions. Homotopy Based Methods in Water Engineering attempts to present the wide applicability of these methods to water engineering problems. It solves all kinds of nonlinear equations, namely algebraic, transcendental equations, ordinary differential equations (ODEs), systems of ODEs, partial differential equations (PDEs), systems of PDEs, and integro differential equations using the homotopy based methods. The content of the book deals with some selected problems of hydraulics of open channel flow with or without sediment transport, groundwater hydrology, surface water hydrology, general Burger's equation, and water quality. Features: Provides analytical treatments to some key problems in water engineering. Describes the applicability of homotopy based methods for solving nonlinear equations, particularly differential equations. Compares different approaches in dealing with issues of nonlinearity.

Planning and Evaluation of Irrigation Projects Raveendra Kumar Rai, Vijay P. Singh, Alka Upadhyay, 2017-04-06 Planning and Evaluation of Irrigation Projects: Methods and Implementation presents the considerations, options, and factors necessary for effective implementation of irrigation strategies, going further to provide methods for evaluating the efficiency of systems in place for remedial correction as needed. As the first book to take this lifecycle approach to agricultural irrigation, it includes real world examples not only on natural resource availability concerns but also on financial impacts and measurements. With 21 chapters divided into two sections, this book is a valuable resource for agricultural and hydrology engineers, conservation scientists, and anyone seeking to implement and maintain irrigation systems. Uses real world examples to present practical insights. Incorporates both planning and evaluation for full scope understanding and application. Illustrates both potential benefits and limitations of irrigation solutions. Provides potential means to increase crop productivity that can result in improved farm income.

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

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Handbook of Applied Hydrology, Second Edition Vijay P. Singh, 2016-03-07 Fully Updated Hydrology Principles Methods and Applications Thoroughly revised for the first time in 50 years this industry standard resource features chapter contributions from a who's who of international hydrology experts Compiled by a colleague of the late Dr Chow Chow's Handbook of Applied Hydrology Second Edition covers scientific and engineering fundamentals and presents all new methods processes and technologies Complete details are provided for the full range of ecosystems and models Advanced chapters look to the future of hydrology including climate change impacts extraterrestrial water social hydrology and water security Chow's Handbook of Applied Hydrology Second Edition covers The Fundamentals of Hydrology Data Collection and Processing Hydrology Methods Hydrologic Processes and Modeling Sediment and Pollutant Transport Hydrometeorologic and Hydrologic Extremes Systems Hydrology Hydrology of Large River and Lake Basins Applications and Design The Future of Hydrology

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