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Water Power Engineering, 2nd Edition-M.M. Dandekar & K. N.Sharma The book provides a comprehensive account of an important sector of engineering—the hydro-power—that is renewable and potentially sustainable. It covers the entire scope of the subject in a lucid manner starting from the fundamentals of hydrology, to various hydraulic and civil structures to electrical and mechanical equipment as required for hydro-power projects. Many new issues and challenges voiced in the energy sector in general and water power in particular during the last decade have been addressed in the book. Recent innovations and developments in some areas like wave power, and new technologies in hydraulic structures, like the P-K weirs, fuse gates, stepped spillways, CFRD, RCC, etc., find place suitably in the book. The book is meant for undergraduate and postgraduate students of civil and electrical engineering for the professionals interested in the subject. NEW IN THE SECOND EDITION:Thoroughly rewritten text; takes account of the new and growing technology, including • New types of dams, • Sedimentation of reservoirs, rehabilitation of dams • Spillway design floods, new types of spillways • Mathematical models for rainfall-runoff analysis, including contribution of snowfall • Structural components of tidal plants, and new types of turbines • Wave power exploitation • Detailed study on Saras Sarovar and Tehri projects • Fully updated with the latest data, up to 2013 • Two new chapters on 'small-scale hydro, and 'environmental impact of hydro and multi-purpose projects'

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Irrigation, Water Power and Water Resources Engineering (in SI Units)-K R Arora 2001
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Tools and Applications-Ramesh邦ia 2005-12 Irrigation Engineering-S. K. Mazumder 1983 Small Wind Turbines for Electricity and Irrigation-Mario Alejandro Rosato 2018-06-27 This practical book deals with the technology of small-power wind turbines as opposed to widely diffused industrial wind turbines and wind farms. It covers the most common wind turbine technologies in the small power segment: horizontal axis both for electrical generation and water pumping, vertical axis of the Darrieus type, and vertical axis of the Savonius type. With each chapter following the same didactic scheme—a theoretical explanation and practical examples showing calculation procedures—it allows anybody with basic technical knowledge to design and build a small wind turbine for any site. A set of simple spreadsheets is available for download, each providing further examples of how to solve specific design problems and allowing the reader to play with changing parameters and see what if. This simple trial-and-error learning process allows beginners to develop the feeling of the orders of magnitude involved in the design of a small wind power system, its potential advantages on other alternative solutions, and its limitations under some special circumstances.

Irrigation Engineering-Basak 1999-10-01 Water Power Engineering-Daniel Webster Mead 1915 Water Power Engineering-M. M. Dandekar 1985 SMTS-II Theory of Structures-Dr. B.C. Punmia 2004-08 Environmental engineering supports the well-being of people and the planet in areas where the two intersect. Over the decades the field has improved countless lives through innovative systems for delivering water, treating waste, and preventing and remediating pollution in air, water, and soil. These achievements are a testament to the multidisciplinary, pragmatic, systems-oriented approach that characterizes environmental engineering. Environmental Engineering for the 21st Century: Addressing Grand Challenges outlines the crucial role for environmental engineers in this period of dramatic growth and change. The report identifies five pressing challenges of the 21st century that environmental engineers are uniquely poised to help advance: sustainably supply food, water, and energy; curb climate change and adapt to its impacts; design a future without pollution and waste; create efficient, healthy, resilient cities; and foster informed decisions and actions.
Irrigation and Water Power Engineering by BC Punmia

The aim of these volumes is to cover all phases of ion-exchange theory, which may be found in general texts, or to cover every application in the literature, or to show an engineer ways on how to become an expert in the field so he could do it all by himself. The main purpose of these books is to show the practical engineer what has been done in various types of applications of ion-exchange processes in pollution control, how to set up laboratory tests, the problems that may be encountered to identify the individuals and organizations who are experts in the various phases of ion exchange, and most importantly, to emphasize the new developments in the polymers with active sites that offer new approaches to wastewater treatment methods.

Water Resources Sustainability-Larry W. Mays 2007 Providing clean water to earth’s rapidly growing human population is one of the major issues of the 21st Century. The climatic effects of global warming on water supply has made this a hot-button issue.

Flow Transition Design in Hydraulic Structures-S.K. Mazumder 2020-02-12 Transitions are provided in hydraulic structures for economy and efficiency. This book covers all types of flow transitions: sub-critical to sub-critical, sub-critical to super-critical, super-critical to sub-critical with hydraulic jump, and super-critical to super-critical transitions. It begins with an introduction followed by characteristics of flow in different types of transitions and procedures for hydraulic design of transitions in different structures. Different types of appurtenances used to control flow separation and ensure uniform flow at exit of transition and diffusers are included. Examples of hydraulic design of a few typical hydraulic structures are given as well.

Landscape Irrigation-Stephen W. Smith 1997 A total, all-in-one guide to modern landscape irrigation strategies, techniques, and hardware. Landscape Irrigation is designed to function as both a professional reference and a junior- to senior-level text for students of landscape architecture, landscape design, and turf management. It is also an excellent study guide for young professionals preparing to take the LARE. Emphasizing water-conserving irrigation design throughout, author Stephen Smith covers all the bases, providing in-depth coverage of:

- Irrigation methods and components
- Drawing techniques and presentation
- Sprinkler and drip irrigation methods and hardware
- Pipe characteristics and hydraulics
- Control systems
- CSI irrigation specifications

Throughout Landscape Irrigation you will find many informative examples of irrigation strategies now employed around the world. Corresponding hydraulic reference data for all the examples are contained in a separate appendix for easy reference. Landscape Irrigation is an indispensable tool-of-the-trade for landscape architects, landscape contractors, irrigation professionals, and turfgrass and golf course managers.

Energy Dissipation in Hydraulic Structures-Hubert Chanson 2015-05-12 Recent advances in technology have permitted the construction of large dams, reservoirs and channels. This progress has necessitated the development of new design and construction techniques, particularly with the provision of adequate flood release facilities. Chutes and spillways are designed to spill large water discharges over a hydraulic struc