Water Resource Engineering S K Garg

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Comprehensive Workshop Technology (Manufacturing Processes) - S. K. Garg 2009

International and Interstate River Water Disputes - Santosh Kumar Garg 1999

Engineering Hydrology - Subramany K. 2007

Wastewater Treatment and Waste Management - Vijay P. Singh 2003

Water Supply Engineering - Dr. B.C. Punmia 1995

Irrigation Engineering And Hydraulic Structures - Santosh Kumar Garg 2009

Hydrological Dimensioning and Operation of Reservoirs - I.V. Nagy 2013-03-09
Storage reservoirs represent one of the most effective tools for eliminating, or at least for minimizing, discrepancies in the time and space variations of water resources distribution and requirements. In fact, the different - often contradictory - and increasing demands on water resources utilization and control usually can be fulfilled only by building multi-purpose reservoir systems. In this way, the available water resources can be exploited and/or managed in a more rational way. Typically, the construction of a dam across a river valley causes water to accumulate in a reservoir behind the dam; the volume of water accumulated in the reservoir will depend, in part, on the dimensions of the dam. The size of the dam will normally affect the capital expenditure in a very significant way. Indeed the construction of large water resource control systems - such as dams - generally involves rather huge manpower and material outlays. Consequently, the elaboration of effectual methods of approach that can be used in establishing the optimal reservoir parameters is of great practical significance. For instance, in the design and operation oflarge multi-reservoir systems, simple simulation and/or optimization models that can identify potentially cost effective and efficient system design are highly desirable. But it should be recognized that the problem of finding optimal capacities for multi-reservoir systems often becomes computationally complex because of the large number of feasible configurations that usually need to be analyzed.

Geospatial Technologies for Land and Water Resources Management - Ashish Pandey 2022
This book focuses on the application of geospatial technologies to study the land use land cover (LULC) dynamics, agricultural water management, water resources assessment and modeling, and studies on natural disasters. LULC dynamics is one of the major research themes for studying global environmental change using remote sensing data. The section on LULC dynamics covers the multi-variate criteria for land use and land cover classification and change assessment in the mountainous regions. Further, LULC change detection of the Tons river basin and LULC dynamics at decadal frequency are studied to derive adaptation and mitigation strategies. Landscape-level forest disturbance modeling, together with conservation implications, is also included. The watershed management approach is necessary for comprehensive management of land and water resources of any region, where studies on multi-criteria analysis for rainwater harvesting planning and its impact on land use land cover transformations in rain-fed areas using geospatial technologies are presented in this book. The book will be useful for academics, water practitioners, scientists, water managers, environmentalists, and administrators, NGOs, researchers, and students who are actively involved in the application of geospatial technologies in LULC studies, agricultural water management and hydrological modelling and natural disasters for addressing the challenges being posed by climate change while addressing issues of food and water securities.

Irrigation Engineering (Including Hydrology) - Sharma R.K. & Sharma T.K. 2008
The First Edition of this treatise on Irrigation Engineering duly subsidised by national Book trust,Government of India,published in 1984.was highly acclaimed by the engineering teachers and taughts and its revised edition appeared in 1990.The dynamism inherent in the subject necessitated drastic changes in the text,prompted by theoverwhelming response of irrigation and agriculture engineering students and practising engineers in the country and abroad duly patronised by the publications,Shri Ravindra Kumar Gupta,Managing Director,S.Chand & Company Ltd.,New Delhi

A Textbook Of Water Power Engineering - RK Sharma | TK Sharma 2003
Including Dams Engineering, Hydrology and Fluid Power Engineering. For the student of B.E./B.Tech. Civil Engg., Institution of Engineers (India) U.P.S.C. Exam & Practising Engineers.

Fair, Geyer, and Okun's, Water and Wastewater Engineering - Nazih K. Shammas 2010-10-19
This text series of Water and Wastewater Engineering have been written in a time of mounting urbanisation and industrialisation and resulting stress on water and wastewater systems. Clean and ample sources of water for municipal uses are becoming harder to find and more expensive to develop. The text is comprehensive and covers all aspects of water supply, water sources, water distribution, sanitary sewerage and urban stormwater drainage. This wide coverage is helpful to engineers in their every day practice.

Water Management in India - M. Dinesh Kumar 2009

Managing Water in River Basins - M. Dinesh Kumar 2010-06-23
This book provides an in-depth analysis of existing methods of water management and highlights the gaps in the use of water in various river basins. Underlying the futility of 'quick fix' solutions, it puts forward various alternative strategies for water management. Using illustrative case studies, the author lists major challenges in water management: productivity improvement in key-use sectors, inter-sectoral allocation, trans-boundary resource management, and availability in deficient regions. Highlighting the opportunities for improving water productivity in agriculture, he also provides methodologies for generating country- and regional-level water balance scenarios. The volume also discusses the problems involved in allocating water in river basins. Kumar gives a detailed account of some of the widely known economic tools. He examines the institutional and policy measures for ensuring sustainable use of water and economic growth, including the creation of new organizations.

Water Resources Engineering - Ray K. Linsley 1992-01
Covers the aspects of water resources engineering, from hydrology, hydraulics, and hydraulic structures to engineering economy studies and planning. This book discusses the multi-purpose projects in the chapter on planning. It also includes 400 problems for student homework assignments.

Practical Civil Engineering - P.K. Jayasree 2021-05-03
The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate management, and building. Basic civil engineering topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation and environment

engineering are explained in detail. Codal provisions of US, UK and India are included to cater to a global audience. Insights into techniques like modern surveying equipment and technologies, sustainable construction materials, and modern construction materials are also included. Key features: • Provides a concise presentation of theory and practice for all technical in civil engineering. • Contains detailed theory with lucid illustrations. • Focuses on the management aspects of a civil engineer's job. • Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies. • Includes codal provisions of US, UK and India. The book is aimed at professionals and senior undergraduate students in civil engineering, non-specialist civil engineering audience

Water Resources Engineering - Larry W. Mays 2010-06-08

Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to reinforce important concepts. Additional end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers.

Environmental Engineering - Howard S. Peavy 1985

Soil Mechanics and Foundations - B. C. Punmia 2005

Solid Waste Engineering and Management - Lawrence K. Wang 2022-01-01

This book is the first volume in a three-volume set on Solid Waste Engineering and Management. It provides an introduction to the topic, and focuses on legislation, transportation, transfer station, characterization, mechanical volume reduction, measurement, combustion, incineration, composting, landfilling, and systems planning as it pertains to solid waste management. The three volumes comprehensively discuss various contemporary issues associated with solid waste pollution management, impacts on the environment and vulnerable human populations, and solutions to these problems.

Workshop Technology (Manufacturing Process) - S. K. Garg 2009-05-01

This textbook includes exposure to plant & shop layout, industrial safety, engineering materials and their heat treatment, bench work and fitting, smithy and forging, sheet metal work, wood and wood working, foundry, welding, mechanical working and machine shop practices. A greater stress has been laid on pictorial representation of various hand tools, operators and machine tools rather than giving exhaustive write up on various topics. The matter has been presented in a structured manner and in an easy to understand language, which can be mastered easily by students of various disciplines. Attention has also been paid to the fact that the text as well as the diagrams can be easily reproduced by the students in theory examinations.The book will be useful for the students of engineering, supervisors, tool room personnel and operators working in manufacturing and other industries.

Planning and Evaluation of Irrigation Projects - Raveendra Kumar Rai 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

Impact of irrigation on poverty and environment in Ethiopia: draft proceedings of the symposium and exhibition, Addis Ababa, Ethiopia, 27-29 November 2007 - Makonnen Loulseged 2011-07-21

Water-resources Engineering - David A. Chin 2012-10-04

Water-Resources Engineering provides comprehensive coverage of hydraulics, hydrology, and water-resources planning and management. Presented from first principles, the material is rigorous, relevant to the practice of water resources engineering, and reinforced by detailed presentations of design applications. Prior knowledge of fluid mechanics and calculus (up to differential equations) is assumed.

Environmental Pollution - Vijay P. Singh 2003

Strategic Analyses of the National River Linking Project (NRLP) of India: Proceedings of the Workshop on Analyses of Hydrological, Social, and Ecological Issues of the NRLP - Upali A. Amarasinghe 2008

Contributed articles.

Swarm, Evolutionary, and Memetic Computing - Bijaya Ketan Panigrahi 2011-12-15

These two volumes, LNCS 7076 and LNCS 7077, constitute the refereed proceedings of the Second International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2011, held in Visakhapatnam, India, in December 2011. The 124 revised full papers presented in both volumes were carefully reviewed and selected from 422 submissions. The papers explore new application areas, feature new bio-inspired algorithms for solving specific hard optimization problems, and review the latest progresses in the cutting-edge research with swarm, evolutionary, and memetic computing in both theoretical and practical aspects.

A Text Book of Hydrology - P. Jaya Rami Reddy 2005-12

Water Resources Systems Planning and Management - Sharad K. Jain 2003-09-12

This book is divided into four parts. The first part, Preliminaries, begins by introducing the basic theme of the book. It provides an overview of the current status of water resources utilization, the likely scenario of future demands, and advantages and disadvantages of systems techniques. An understanding of how the hydrological data are measured and processed is important before undertaking any analysis. The discussion is extended to emerging techniques, such as Remote Sensing, GIS, Artificial Neural Networks, and Expert Systems. The statistical tools for data analysis including commonly used probability distributions, parameter estimation, regression and correlation, frequency analysis, and time-series analysis are discussed in a separate chapter. Part 2 Decision Making, is a bouquet of techniques organized in 4 chapters. After discussing optimization and simulation, the techniques of economic analysis are covered. Recently, environmental and social aspects, and rehabilitation and resettlement of project-affected people have come to occupy a central stage in water resources management and any good book is incomplete unless these topics are adequately covered. The concept of rational decision making along with risk, reliability, and uncertainty aspects form subject matter of a chapter. With these analytical tools, the practitioner is well equipped to take a rational decision for water resources utilization. Part 3 deals with Water Resources Planning and Development. This part discusses the concepts of planning, the planning process, integrated planning, public involvement, and reservoir sizing. The last part focuses on Systems Operation and Management. After a resource is developed, it is essential to manage it in the best possible way. Many dams around the world are losing some storage capacity every year due to sedimentation and therefore, the assessment and management of reservoir sedimentation is described in details. No analysis of water resources systems is complete without consideration of water quality. A river basin is the natural unit in which water occurs. The final chapter discusses various issues related to holistic management of a river basin.

Irrigation Engineering - N. N. Basak 1999-10

Regional Hydrological Impacts of Climatic Change: Impact assessment and decision making - Thorsten Wagener 2005

First considers the assessment of the hydrological impacts of future climate and then addresses decision making for mitigation/adaptation strategies, given the uncertainties associated with predictions by water resources and hydrological extremes models.

Water Resources System Operation - Vijay P. Singh 2003

Irrigation Management - Martin Burton 2010

In many countries irrigated agriculture consumes a large proportion of the available water resources, often over 70% of the total. There is considerable pressure to release water for other uses and, as a sector, irrigated agriculture will have to increase the efficiency and productivity

of its water use. This is particularly true for manually operated irrigation systems managed by government agencies, which provide water for a large number of users on small landholdings and represent 60% of the total irrigated area worldwide. Drawing on the author's 30 years of experience in some 28 countries, this book offers knowledge of the management of irrigation and drainage systems, including traditional technical areas of systems operation and maintenance, and expanding managerial, institutional and organizational aspects. Chapters provide guidelines to improve management, operation and maintenance processes, which move management thinking out of traditional public-sector mindsets to a more customer-focused, performance-oriented service delivery. As a practical guide to improve efficiency and productivity in irrigated agriculture, this book will be essential reading for irrigation managers and technicians as well as students and policy makers in water management, agriculture and sustainable development.

Hydrology and Water Resources of India - Sharad K. Jain 2007-05-16

India is endowed with varied topographical features, such as high mountains, extensive plateaus, and wide plains traversed by mighty rivers. Divided into four sections this book provides a comprehensive overview of water resources of India. A detailed treatment of all major river basins is provided. This is followed by a discussion on major uses of water in India. Finally, the closing chapters discuss views on water management policy for India.

Irrigation Engineering and Hydraulic Structures - Sharma S.K.

Irrigation Engineering and Hydraulic Structures comprehensively deals with all aspects of Irrigation in India, soil moisture and different types of irrigation systems including but not limited to Sprinkler, Tubewell, Canal and Micro-Irrigation. The book also focuses on Engineering Hydrology, Dams, Water Power Engineering as well as Irrigation Water Management. Special care has been taken to highlight the principles, practices and design procedures that have been widely recommended as well as suggest improvements in the application of existing methods and adoption of latest techniques used in other parts of the world.

Irrigation and Water Resources Engineering - G. L. Asawa 2006

The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc.The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17.The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

Waste Water Engineering - Dr. B.C. Punmia 1998

Irrigation and Water Power Engineering - B. C. Punmia 2009-05

Selected Water Resources Abstracts - 1990

ELEMENTS OF HYDROLOGY AND GROUNDWATER - SAXENA, R.N. 2017-06-01

The book, designed for the postgraduate students of Pure and Applied Geology (M.Sc.) and Hydrology and Groundwater (M.Tech) and undergraduate students of Civil Engineering/Irrigational Engineering/Water Resource Engineering, is highly useful to the students for their course study and is also likely to help those appearing in various competitive examinations such as GATE, NET, PSC and UPSC. This book comprises fifteen chapters, of which the first six chapters are devoted to Hydrology, whereas the last nine chapters impart the knowledge of Groundwater. The text explains topics in a simple manner using step-by-step approach throughout and supports learning with illustrations and diagrams. KEY FEATURES 1. Covers a wide range of topics on Hydrology and Groundwater. 2. Provides chapter-end Review Questions, Objective Type Questions and Numerical Problems for practice. 3. Includes Appendices on Unit Conversion Factors; Glossary; and Answers to Objective Type Questions and Numerical Problems, respectively, with a detailed bibliography.

Computer Applications in Water Resources - Harry C. Torno 1985