

# IRRIGATION ENGINEERING

(INCLUDING HYDROLOGY)



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# Irrigation Engineering Including Hydrology

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## **Irrigation Engineering Including Hydrology:**

**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 the overwhelming 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

**Irrigation Engineering** K. R. Sharma, 1959

**Irrigation Engineering** Vijay P. Singh, Qiong Su, 2022-07-07 Covering climate soils crops water quality hydrology and hydraulics this textbook offers a perfect overview of irrigation engineering

Irrigation and Drainage Engineering Peter Waller, Muluneh Yitayew, 2015-11-18 This textbook focuses specifically on the combined topics of irrigation and drainage engineering It emphasizes both basic concepts and practical applications of the latest technologies available The design of irrigation pumping and drainage systems using Excel and Visual Basic for Applications programs are explained for both graduate and undergraduate students and practicing engineers The book emphasizes environmental protection economics and engineering design processes It includes detailed chapters on irrigation economics soils reference evapotranspiration crop evapotranspiration pipe flow pumps open channel flow groundwater center pivots turf and landscape drip orchards wheel lines hand lines surfaces greenhouse hydroponics soil water movement drainage systems design drainage and wetlands contaminant fate and transport It contains summaries homework problems and color photos The book draws from the fields of fluid mechanics soil physics hydrology soil chemistry economics and plant sciences to present a broad interdisciplinary view of the fundamental concepts in irrigation and drainage systems design

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

Introduction to Water Engineering, Hydrology, and Irrigation Mohammad Albaji, 2022-06-14 This book is designed as an undergraduate text for water and environmental engineering courses and as preliminary reading for postgraduate courses in water and environmental engineering including introductory coverage of irrigation and drainage water resources hydrology hydraulic structures and more The text and exercises have been classroom tested by undergraduate water and environmental engineering students and are augmented by material prepared for extramural short courses It covers basic concepts of agricultural irrigation and drainage including planning and design surface intakes economics environmental impacts wetlands and legal issues Features Numerous illustrations throughout to clarify the concepts presented Examines and compares the advantages and disadvantages of several methods of irrigation practice Explains the integral components including pumps filters piping valves and more Considers fertilizer application and nutrient management This comprehensive and well illustrated book will be of great interest to students professionals and researchers involved with all aspects of water engineering hydrology and irrigation

**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

**Elementary Irrigation Engineering** G.L. Asawa, 1999 The Book Elementary Irrigation Engineering Has Been Written To Meet The Needs Of Diploma Students Of Civil Engineering For Their Course In Irrigation Engineering It Deals With The Basics Of Major Topics Related To Irrigation Engineering The First Chapter Introduces Irrigation Its Development In India And Different Irrigation Methods Hydrological Aspects Of Irrigation Engineering Have Been Introduced In Chapter 2 Soil Water Plant Relationships And Water Requirement Of Crops Have Been Dealt With In Chapter 3 Well Irrigation Has Been Described In Chapter 4 Different Aspects Of Canal Irrigation Have Been Discussed In Chapters 5 And 6 Basic Features Of Planning And Design Of Major Canal Structures Such As Canal Regulation And Cross Drainage Structures And Canal Head Works Have Been Described In Chapters 7 8 And 10 Chapter 9 Deals With River Training Methods While Chapter 11 Deals With Basic Aspects Of Major Hydraulic Structures Such As Dams Reservoirs And Spillways

Engineering Hydrology of Arid and Semi-Arid Regions Mostafa M. Soliman, 2010-06-23 The natural scarcity

of water in arid and semiarid regions aggravated by man made factors makes it difficult to achieve a reliable water resources supply. Communities in these areas pay the price for thousands of years of water manipulation. Presenting important insight into the complexities of arid region hydrology. Engineering Hydrology of Arid Plasticulture Engineering and Technology Rohitashw Kumar, Vijay P. Singh, 2022-05-05. The utilization of successful plasticulture engineering technology can ideally optimize crop yields and provide both economic and environmental benefits such as reducing the need for water and fertilizer. This book discusses the myriad important aspects of crop production that utilize plastic such as micro irrigation, water management, plastic mulch, films, protected cultivation, and low tunnels, crop covers, canal linings, silage bags, and more. It also examines the latest methods for vertical farming and technological aspects such as smart agriculture using the internet of things (IoT). The current state of the art as well as potential future uses of plastics is discussed in addition to the benefits and limitations of plastics applications in agriculture generally. Features: Illustrates application of plastic in protected cultivation, water management, aquaculture, and hi tech horticulture using innovative technologies to enhance water use efficiency and crop productivity. Presents precision farming for climate resilient technologies. Includes real world examples to present practical insights of plastic engineering for climate change mitigation strategies. Plasticulture Engineering and Technology will serve as a useful resource for students, professionals, and researchers in agriculture and agricultural engineering, hydrology, hydraulics, water resources engineering, irrigation engineering, and environmental science.

*Handbook of Applied Hydrologic and Water Resources Engineering* Raveendra Kumar Rai, Chandra Shekhar Prasad Ojha, Vijay P. Singh, 2025-02-26. The Handbook of Applied Hydrologic and Water Resources Engineering examines the planning and design of water supply systems, flood control works, drought mitigation measures, navigation facilities, and hydraulic structures, as well as feasibility and environmental impact studies for various water related projects. It is based on the experience gained through consultancy in dealing with various water resources issues and problems, teaching and research. It serves as a useful resource for graduate students and faculty members in civil engineering, agricultural engineering, and water resources engineering, as well as practicing engineers working in civil, environmental, and agricultural fields. Elements of Water Resources Engineering K. N. Duggal, 1996. The book conforms to the modern concept of treating the diversified problems of water resources engineering through a multi-disciplinary and integrated approach and incorporating it in the educational curriculum for effective and comprehensive teaching. It specifically deals with the principal segments of water resources engineering which include hydrology, ground water, water management for irrigation, and power, flood control, engineering economy in water resources projects, flood control project planning, water resources concrete and earth dams. Because of the multi-disciplinary nature of water resources engineering problems, it is seldom possible to do full justice to the subjects unless the teaching imparts background knowledge of the allied disciplines viz. probability and statistics, engineering economics, and systems engineering. The book represents

An Attempt To Fulfill This Primal Need The Book Would Primarily Benefit Students Doing Graduation In Civil Engineering And Those Appearing In Section B Examination Of The Institution Of Engineers India Besides Some Of The Topics Covered In The Book Would Also Be Of Much Use By Post Graduate Students In Water Resources Engineering     **Handbook of Engineering Hydrology** Saeid Eslamian,2014-03-21 While most books examine only the classical aspects of hydrology this three volume set covers multiple aspects of hydrology and includes contributions from experts from more than 30 countries It examines new approaches addresses growing concerns about hydrological and ecological connectivity new quantitative and qualitative managing techniques and considers the worldwide impact of climate change It also provides updated material on hydrological science and engineering discussing recent developments as well as classic approaches Published in three books Fundamentals and Applications Modeling Climate Change and Variability and Environmental Hydrology and Water Management the entire set consists of 87 chapters and contains 29 chapters in each book The chapters in this book contain information on The anthropogenic aquifer groundwater vulnerability and hydraulic fracturing and environmental problems Disinfection of water environmental engineering for water and sanitation systems environmental nanotechnology modeling of wetland systems nonpoint source and water quality modeling water pollution control using low cost natural wastes and water supply and public health and safety Environmental flows river managed system for flood defense stormwater modeling and management tourism and river hydrology and transboundary river basin management The historical development of wastewater management sediment pollution and sustainable wastewater treatment Water governance scarcity and security The formation of ecological risk on plain reservoirs modification in hydrological cycle sustainable development in integrated water resources management transboundary water resource management and more Students practitioners policy makers consultants and researchers can benefit from the use of this text     **Irrigation Engineering and Hydraulic Structures** ,2016     **Hydrological Systems Modeling - Volume I** Lev S. Kuchment ,Vijay P. Singh,2009-06-18 Hydrological Systems Modeling is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 2 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Hydrological Systems Modeling and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs     **Hydrological Processes Modelling and Data Analysis** Vijay P. Singh,Rajendra Singh,Pranesh Kumar Paul,Deepak Singh Bisht,Srishti Gaur,2024-04-01 This book provides a state of the art overview of the concepts and methodologies of data and modelling driven hydrological analyses and their wide range of practical applications The book is driven by the realisation that science technology engineering and mathematics STEM concepts are essential in engineering hydrology to produce well trained

hydrologists Such hydrologists will be equipped to face future societal challenges that require enhanced information and communication technology tools and integration of technical and non technical areas The book contains 12 chapters that introduce the principles of hydrological data analysis and highlight the current and emerging tools and techniques for analysing hydrologic data The book describes the types of data typically used in hydrological analyses It highlights the revolutionary technological advancements made toward hydrological data collection including the use of drones and smartphones The foremost objective of the book is to present the hydrological data analysis procedures It explains the steps involved in data analysis for easy understanding of the reader including students and professionals This book presents case studies that demonstrate step by step procedures involved in typical analysis problems and may guide students and professionals in planning and executing steps to analyse the problem at hand Case study examples will guide them to understand the intricacies of hydrological data analysis It provides the readers with a complete package to enrich their understanding of the hydrological data analysis tools and techniques Subsequently as well trained hydrologists they could execute their learning to meet any specific grand challenge of the twenty first century

**Laboratory Manual for Groundwater, Wells, and Pumps** Rohitashw Kumar,Vijay P. Singh,Munjid Maryam,2023-05-23 The over exploitation of groundwater and marked changes in climate over recent decades has led to unacceptable declines in groundwater resources Under the likely scarcity of available water resources in the near future it is critical to quantify and manage the available water resources With increasing demand for potable water for human consumption agriculture and industrial uses the need to evaluate the groundwater development management and productivity of aquifers also increases Laboratory Manual for Groundwater Wells and Pumps serves as a valuable resource and provides a multi disciplinary overview for academics administrators scientists policymakers and professionals involved in managing sustainable groundwater development programs It includes practical guidance on the measurement of groundwater flow soil properties aquifer properties wells and their design as well as the latest state of the art information on pumps and their testing and groundwater modeling Features Covers basics of groundwater engineering advanced methodologies and their applications and groundwater modeling Examines groundwater exploration planning and designing and methods for formulating strategies for sustainable management and development Serves as a reference for practitioners on practical applications and frequently occurring issues of groundwater investigations development and management

*Agricultural Impacts of Climate Change [Volume 1]* Rohitashw Kumar,Vijay P Singh,Deepak Jhajharia,Rasoul Mirabbasi,2019-11-25 Conservation agriculture is a sustainable production model that not only optimizes crop yields but also reaps economic and environmental benefits as well The adoption of successful conservation agriculture methods has resulted in energy savings higher organic matter content and biotic activity in soil increased crop water availability and thus resilience to drought improved recharge of aquifers less erosion and reduced impacts from the weather associated with climate change in general Agricultural Impacts of Climate

Change examines several important aspects of crop production such as climate change soil management farm machinery and different methods for sustainable conservation agriculture It presents spatial distribution of a daily monthly and annual precipitation concentration indices Diffuse Reflectance Fourier Transform Infrared Spectroscopy for analyzing the organic matter in soil and adaptation strategies for climate related plant disease scenarios It also discusses solar energy based greenhouse modeling precision farming using remote sensing and GIS and various types of machinery used for conservation agriculture Features Examines the effects of climate change on agriculture and the related strategies for mitigation through practical real world examples Explores innovative on farm technology options to increase system efficiency resulting in improved water usage Presents examples of precision farming using climate resilient technologies Agricultural Biosystems, and Biological Engineering Education Umezuruike Linus Opara, 2024-09-30 Agricultural engineering developed as an engineering discipline underpinned by physics applies scientific principles knowledge and technological innovations in the agricultural and food industries During the last century there was exponential growth in engineering developments which has improved human wellbeing and radically changed how humans interact with each other and our planet Among these Agricultural Mechanization is ranked among the top 10 in a list of 20 Top Engineering Achievements of the last century that have had the greatest impact on the quality of life While many success stories abound the problems of low appeal among students identity crises and limited job opportunities in many climes continue to trouble the discipline s future in many parts of the world Yet agriculture and agricultural engineering remain fundamental to assuring food and nutrition security for a growing global population Agricultural Biosystems and Biological Engineering Education provides the first comprehensive global review and synthesis of different agricultural biosystems and biological engineering education approaches including a detailed exposition of current practices from different regions Key Features Describes novel approaches to curriculum design and reform Outlines current and emerging epistemology and pedagogies in ABBE education Provides a framework to grow agricultural engineering in Africa and other developing regions Highlights the role of ABBE education in the context of the SDGs Presented in 3 parts and containing 42 chapters this book covers the historical evolution of agricultural engineering education and discusses the emergence of biological and biosystems engineering education It will appeal to engineers and other professionals education planners and administrators and policy makers in agriculture and other biological industries Chapters 4 11 19 32 and 41 of this book are freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license Applied Agricultural Practices for Mitigating Climate Change [Volume 2] Rohitashw Kumar, Vijay P Singh, Deepak Jhahharia, Rasoul Mirabbasi, 2019-11-25 Conservation agriculture is a sustainable production model that not only optimizes crop yields but also reaps economic and environmental benefits as well The adoption of successful conservation agriculture methods has resulted in energy savings higher organic matter content and biotic activity in soil increased crop water availability and thus



resilience to drought improved recharge of aquifers less erosion and reduced impacts from the weather associated with climate change in general Applied Agricultural Practices for Mitigating Climate Change examines several important aspects of crop production such as the use of microorganisms and biofertilizers as well as GIS and Remote Sensing applications It presents the latest techniques in crop modeling best practices for irrigation under water deficit conditions and other approaches for sustainable conservation agriculture that consider the environmental effects of climate change Features Examines the effects of climate change on agriculture and the related strategies for mitigation through practical real world examples Explores innovative on farm technology options to increase system efficiency resulting in improved water usage Presents examples of precision farming using climate resilient technologies

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