

Irrigation Engineering By P N Modi Alykes

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 Irrigation Engineering and Hydraulic Structures
 Textbook Of Irrigation Engineering
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 Irrigation Engineering
 Laboratory and Field Manual on Irrigation Engineering
 Irrigation Engineering
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 Manual of Irrigation Engineering
 A Handbook of Irrigation and Drainage
 Irrigation Water Resources and Water Power Engineering
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 Canal structures(including river engineering)
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 Irrigation Technical Manual
 Principles and Practice of Irrigation Engineering

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[Irrigation Engineering](#) Forgotten Books

Excerpt from Irrigation Engineering The need of a comprehensive treatise on irrigation has been so frequently brought to my attention during the last few years, that I have undertaken to write this book with the hope that it may help those who are engaged in the study or practice of irrigation engineering. It is chiefly the result of original investigation, the descriptions of works being made from personal observation in America, Europe, and India. Some of the matter contained in Part I is compiled, and in its preparation I am especially indebted for information and suggestions to the valuable work on "Water Supply Engineering," by Mr. J. T. Fanning. There is added, however, much that is new, a portion of which was obtained from the reports of Mr. F. H. Newell, Chief Hydrographer of the U. S. Geological Survey. The purpose has been to include in Part I only so much of hydraulics as is an indispensable preliminary to the remainder of the book, or is original matter. Wherever the subject has been treated by others the reader is referred to their works. The entire book relates directly to the conditions surrounding Western irrigation practice. The examples given and the suggestions made apply immediately to Western methods, though many useful hints are borrowed from foreign experience. The classification adopted is original, I believe, and follows closely that employed in reports made by me to the Government, which seem to have met with general

approval. In this classification the terms "diversion weirs" and "dams" have been used with special signification. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

[Irrigation Engineering](#) Firewall Media

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 Scientific Publishers

Contents: Introduction; History Of Irrigation In India; Classification; Prerequisites; Investigations; Planning; Soil, Water And Crops; Diversion Head Works; Reservoir Headworks; Earth Dams; Gravity Dams; Spillways; Head Regulators; Distribution System; Design Of Canals; Canal Masonry Works; Cross Drainage Works; Regulation Works; Methods Of Irrigation; Minor Irrigation; Lift Irrigation; Management; Index; Bibliography; Etc.

Irrigation Engineering and Hydraulic Structures Palala Press

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Textbook Of Irrigation Engineering New India Publishing Agency

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.

Irrigation Engineering New India Publishing

The irrigation water is considered as the essential input for crop production. Over exploitation of natural water resources has caused a menace for the future human generations. The depletion of underground water table in high productivity areas and under utilization of the water resources in rain fed areas of the country, poor irrigation efficiency and high seepage losses from conveyance system, poor land development and mismanagement of the irrigation water resources has acquired alarming proportions. As the share of water for agriculture in future is going to reduce, there will be tremendous pressure to produce more per drop of water in order to meet the food and other requirements of burgeoning population of the country. The existing irrigation water resources are not utilized judiciously and their mismanagement has lead to problems like low production efficiency, salinization, water logging and degradation of land. To manage these problems and increase the production efficiency of irrigation, it is pertinent to adopt judicious methods of irrigation water use, by efficient on-farm irrigation management based on scientific approach. Therefore, a comprehensive knowledge of available soil moisture and its constants, scheduling and quality of irrigation water and proper drainage techniques is crucial. This manual on irrigation engineering is an attempt to fulfil this urgent need as it covers all major aspects of irrigation water management. Although, manual is meant primarily for the students of agricultural universities, yet it will provide valuable basic information and guide to the scientific community and field functionaries.

Irrigation Engineering Forgotten Books

Designed primarily as a textbook for the undergraduate students of civil and agricultural engineering, this comprehensive and well-written text covers irrigation system and hydroelectric power development in lucid language. The text is organized in two parts. Part I (Irrigation Engineering) deals with the methods of water distribution to crops, water requirement of crops, soil-water relationship, well irrigation and hydraulics of well, canal irrigation and different theories of irrigation canal design. Part II (Water Power Engineering) offers the procedures of harnessing the hydropotential of river valleys to produce electricity. It also discusses different types of dams, surge tanks, turbines, draft tubes, power houses and their components. The text emphasizes on the solutions of unsteady equations of surge tank and pipe carrying water to power house under water hammer situation. It also includes computer programs for the numerical solutions of hyperbolic partial differential equations. KEY FEATURES : Provides worked out examples and problems (in SI units). Presents all possible methods of design including Ranga-Raju-Misri's new approach of canal design. Gives numerous illustrations to reinforce the understanding of the subject. Besides undergraduate students, this book will also be of immense use to the postgraduate students of water resources engineering.

Irrigation Engineering Cambridge University Press

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
Laboratory and Field Manual on Irrigation Engineering PHI Learning Pvt. Ltd.

Covering climate, soils, crops, water quality, hydrology, and hydraulics, this textbook offers a perfect overview of irrigation engineering.

Irrigation Engineering S. Chand Publishing

This book for Agriculture and Agricultural and Civil Engineers and will be very much helpful for the beginning students in irrigation. It is designed to guide its readers in: Basic knowledge of soil, water and plant, hydrologic and hydraulics to the state-of-the-art of irrigation system design and management. Presented the principles and concepts of farm irrigation in a simple manner to maximize the students learning, understanding and motivation. The method and order of presentation have been carefully developed and classroom tested to make this book a useful and effective teaching tool. The book is written covering syllabus of irrigation engineering which is taught in different State Agricultural Universities as well as in the department of Civil Engineering of different Engineering colleges. The book contains adequate solved problems, short and long type questions, tables, figures which will be immensely helpful to the students and design engineers. Several field experimental results have also been incorporated in the book at appropriate sections to make the book interesting for the readers.

Irrigation Engineering Springer

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Manual of Irrigation Engineering Wentworth Press

This text book is designed to guide students from a basic knowledge of soil, water, plant, hydrologic and hydraulics to the state-of-the-art of irrigation system design, planning and management. The book will be helpful to the students of Agriculture, Agricultural and Civil Engineering and other related fields.The book is written in simple and lucid languages which will make the students interesting in reading the book and understanding the concept of farm irrigation very effectively. The book is written covering the entire syllabus of Irrigation Engineering which is taught in various State Agricultural Universities and is written as per the recommended syllabus of fifth Deans' Committee meeting of Indian Council of Agricultural Research (ICAR), New Delhi.The book will not only be helpful to the students at under-graduate and post-graduate level, but also will be a helping tool for all practicing irrigation engineers, agriculturists, design engineers, researchers, extension personnel and all others who are directly or indirectly associated with irrigation science and engineering.

A Handbook of Irrigation and Drainage Nipa

Excerpt from Irrigation: Its Principles and Practice as a Branch of Engineering Irrigation is a subject which covers much ground, and cannot be confined within the narrow boundaries of a single volume. But the principles on which Irrigation Engineering is based can be collected in small compass, and be illustrated by examples of actual practice to the extent that space allows. What, therefore, this work attempts to do is to set forth the guiding principles that should govern the practice of irrigation, and to furnish illustrations of their application in existing canal systems. The majority of the illustrations have been selected from the wealth of material that the irrigation experience of India and Egypt supplies, for the following reasons. In the first place, I have been personally connected with irrigation in both countries, and can therefore handle the facts, relating to them, as one having authority on the subject, and not as the scribes, Whose methods I might be imitating were I to draw my illustrations from the records of other countries. In the second place, it is India that furnishes examples of irrigation on the largest scale, and that has been the school in which all British irrigation engineers, previously to England's occupation of Egypt, have undergone their training. Moreover, the excellent standard work on the subject, The Irrigation Works of India, by R. B. Buckley, provides in a convenient form more than enough material for copious illustrations, and I have made much use of it, with Mr. Buckley's kind permission. But it will be found that Egypt has been the favourite source of my borrowing. There are two good (so it appears to me) reasons for this. The first is that I am intimately acquainted with Egypt as an irrigating country. The second is that Egypt is par excellence the country of irrigation, as it is wholly dependent for its existence on its mother, the Nile, from which it has never been weaned. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Irrigation Water Resources and Water Power Engineering S. Chand Publishing

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 Engineering New Age International

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