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Irrigation Engineering

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?The irrigation water is considered as the essential input for crop

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production. Over exploitation of natural water resources has caused a menace for the future human generations. The depletion of underground

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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

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seepage losses from conveyance system, poor land development and mismanagement of the irrigation water resources has acquired alarming proportions. As

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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

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and other requirements of burgeoning population of the country. The existing irrigation water resources are not utilized judiciously and their mismanagement has

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lead to problems like low production efficiency, salinization, water logging and degradation of land. To manage these problems and increase

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the production
efficiency of
irrigation, it is
pertinent to adopt
judicious methods of
irrigation water use, by
efficient on-farm

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irrigation management based on scientific approach. Therefore, a comprehensive knowledge of available soil moisture and its constants, scheduling

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and quality of irrigation water and proper drainage techniques is crucial. This manual on irrigation engineering is an attempt to fulfil

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this urgent need as it covers all major aspects of irrigation water management. Although, manual is meant primarily for the students of agricultural

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universities, yet it will provide valuable basic information and guide to the scientific community and field functionaries.

The current book

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attempts to fill the gap in one of the major subject of land drainage that will have a major impact on production and productivity of irrigated lands. The

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book Titled `Drainage Engineering: Principles and Practices` deals with the subject of surface and subsurface drainage to reclaim waterlogged salt

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affected soils. Based on the course curricula as suggested by Deans' committee constituted by ICAR, the current publication has been divided into 11 Chapters

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covering all the facets
of land drainage as
applied to agriculture.
Each chapter covers one
of the related issues
beginning with general
introduction to water

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logging, soil salinity
and land drainage in
Chapter 1. Surface
drainage methods, an
essential intervention
in monsoon climatic
regions and as

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supplement to the subsurface drainage are included in Chapter 2. Drainage investigations, a precursor to problem diagnosis and to assemble the drainage

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design parameters are included in Chapter 3. The drainage design procedures such as assessment of drainage depth, spacing and capacity of drains forms

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the subject matter of Chapter 4. While drainage materials are discussed in Chapter 5, drainage construction procedures and methodologies to monitor

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and evaluate completed projects are included in Chapter 6. Some of the new drainage techniques such as mole, interceptor, vertical and bio-drainage have

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been included in Chapter 7 since these can either be applied singly or in integration with horizontal subsurface drainage. Chapters 8-10 deal withreclamation of

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salt affected soils, acid soils and management of saline water. Eco-friendly reuse and disposal of saline drainage water also form the subject matter of

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discussion of Chapter 10. Cost calculations, socio-economic and environmental issues associated with drainage projects have been included in final

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chapter 11. Glossary of terms has been added for quick overview of the terms used in the book. Clearly, each and every aspect of surface and subsurface drainage for

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agricultural lands has been covered in the book. Besides covering the principles of land drainage, field practices have been included making the book

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a handy tool for specialized training programmes on land drainage. It is believed that the book will find its place in the shelves of students and

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teachers, field
functionaries and
libraries of state
agricultural
universities and civil
engineering colleges.
Market_Desc: For the

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undergraduate students
of civil engineering at
major Indian
universities and
engineering colleges.
The text is also useful
to the experts and

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professionals in the field of irrigation and agriculture. Special Features: · Presents neatly-drawn drawings of dams, spillways, canals and cross-drainage

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works, not provided with any other book.

Explains all aspects of soil moisture, irrigation systems, tanks, dams and canal river systems, water

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rights and environmental aspects.· Discusses live case studies of major dams (the Tehri Dam, the Almatti Dam) for easy understanding of some important concepts.·

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Explains all topics with solved examples and neatly-drawn sketches.
Uses the SI units throughout the book.
Supplies chapter-end problems and objective

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questions for self
assessments. About The
Book: Irrigation
Engineering is designed
for the undergraduate
students of civil
engineering at major

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Indian universities and engineering colleges. The text is also useful to the experts and professionals in the field of irrigation and agriculture. The content

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is divided into two parts: Part A and Part B. Part A contain 21 chapters. In this part, the author has discussed various irrigation systems usually adopted

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in different agro-climatic regions in India. With neatly-drawn sketches, the design of irrigation structures for storage, diversion, distribution and control

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are illustrated with exam-oriented worked-out examples. Part B of the book comprises 27 irrigation/hydraulic structures (called plates), presenting

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sketches with usual three-views to scale of dams, spillways, canals and cross-drainage works. These sketches are furnished with all details and dimensions

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(workable drawings) with
lucid and complete
designs.

Flood Control and
Drainage Engineering,
3rd Edition

Practical Hydraulics and

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Water Resources
Engineering
Flow Transition Design
in Hydraulic Structures
Engineering Practices
for Milk Products
Drainage Engineering:

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Principles and Practices

**The Book Irrigation And
Water Resources
Engineering Deals With
The Fundamental And
General Aspects Of
Irrigation And Water**

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**Resources Engineering
And Includes Recent
Developments In
Hydraulic Engineering
Related To Irrigation And
Water Resources
Engineering. Significant**

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**Inclusions In The Book
Are A Chapter On
Management (Including
Operation, Maintenance,
And Evaluation) Of Canal
Irrigation In India,
Detailed Environmental**

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**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**

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**Etc. The First Chapter Of
The Book Introduces
Irrigation And Deals With
The Need, Development
And Environmental
Aspects Of Irrigation In
India. The Second**

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**Chapter On Hydrology
Deals With Different
Aspects Of Surface Water
Resource. Soil-Water
Relationships Have Been
Dealt With In Chapter 3.
Aspects Related To**

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**Ground Water Resource
Have Been Discussed In
Chapter 4. Canal
Irrigation And Its
Management Aspects
Form The Subject Matter
Of Chapters 5 And 6.**

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**Behaviour Of Alluvial
Channels And Design Of
Stable Channels Have
Been Included In
Chapters 7 And 8,
Respectively. Concepts Of
Surface And Subsurface**

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**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.**

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**Chapter 12 Has Been
Devoted To Rivers And
River Training Methods.
After Introducing
Planning Aspects Of
Water Resource Projects
In Chapter 14,**

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**Embankment Dams,
Gravity Dams And
Spillways Have Been
Dealt With, Respectively,
In Chapters 15, 16 And
17. The Students Would
Find Solved Examples**

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(Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

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**This book presents
quality technical papers
representing the recent
developments in the field
of hydrological modeling,
water management and
water governance**

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including practical applications. The content covers multifarious aspects of hydrology and water resources. It includes an application of the Hydrologic Modelling

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System (HEC-HMS) which has been successfully demonstrated for assessment of floods. The authors suggest an approach for the mitigation of cyclone

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disaster through a case study of the Phailin cyclone, whilst considering mitigating pluvial flooding, developing suitable management strategies.

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The book includes chapters discussing the detrended fluctuation analysis which is carried out for multifractal description of droughts. Drought characteristics

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are analyzed, and drought indices evolved for drought preparedness/management. The use of science in community planning under changing climate is also studied

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and discussed. The authors present and experimental study wherein hydraulic coefficients are calibrated by using vertical orifice. A cross flow hybrid

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hydrokinetic turbine is also evaluated for performance, and high head regulating radial gate designed and studied its sensitivity. This book will appeal to

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**researchers, field
practitioners, NGO and
other Governmental as
well as private water
practitioners**

**This book takes stock of
micro irrigation systems**

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(MIS), the technological intervention in India's agricultural and water management sectors, over the past couple of decades. Based on empirical research from

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**the major agriculturally
dynamic states, viz.,
Gujarat, Rajasthan,
Maharashtra, Tamil
Nadu, Andhra Pradesh
and Karnataka, the book
provides a nuanced**

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understanding and objective assessment of the implementation and adoption of MIS across these states. It addresses several of the questions related to adoption and

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impacts of MIS in India. On the adoption side, the key question that the book addresses is which segment of the farming community adopts MIS across states? The

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impacts analysed include those on physical, agronomic and economic aspects. At the macro level, the question being asked is about the future potential of MIS in terms

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**of saving water from
agriculture and making
more water available for
environment. The book
also addresses the
question of the
positive/negative**

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externalities and real social benefits and costs from the use of MIS, a major justification for heavy capital subsidies for its purchase by farmers. It also brings out

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**certain critical concerns
pertaining to MIS
adoption, which need to
be addressed through
more empirical research
based on longitudinal
panel/ cross sectional**

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**data. The book would be
of great use to
researchers (agricultural
water management,
irrigation economics),
students of water
resource engineering,**

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**irrigation engineering
and water resources
management, as well as
to policy makers and
agricultural water
management experts -
national and**

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international.
Micro Irrigation
Engineering for
Horticultural Crops
Policy Options,
Scheduling, and Design
PRINCIPLES AND

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PRACTICE
Methods and Practices
IRRIGATION WATER
MANAGEMENT

While also addressing the need
for more effective processing
technologies for increased

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safety and quantity, the dairy industry needs to address the growing customer demand for new and innovative dairy foods with enhanced nutritional value. This volume looks at new research, technology, and

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applications in the engineering of milk products, specifically covering functional bioactivities to add value while increasing the quality and safety of milk and fermented milk products. Chapters in the book look at the

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functional properties of milk proteins and cheese, functional fermented milk-based beverages, biofunctional yoghurt, antibiotic resistant pathogens, and other probiotics in dairy food products.

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Primarily written as course material on flood control and drainage engineering for advanced students of civil engineering, this third edition is thoroughly revised. It accommodates recent

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developments in remote sensing, information technology and GIS technology. New additional material deals with problems of flood forecasting, flood plain prioritization and flood hazard zoning, and

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engineering measures for flood control. Drainage improvement is tackled, with particular regard to salinity and coastal aquifer management from the ingress of sea water. The book includes design problem-solving and

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case studies, making it practical and applications-oriented. The subject matter will be of considerable interest to civil engineers, agricultural engineers, architects and town planners, as well as other

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government and non-government organizations
Many countries around the world are struggling with the challenges of water scarcity, including water for crops. Micro irrigation methods are an

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effective means to make the most efficient use of available water. This volume, Micro Irrigation Scheduling and Practices, continues the efforts of the book series Innovations and Challenges in Micro

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Irrigation to provide informative and comprehensive knowledge on micro irrigation methods and practices. This new book presents some of the latest information and research on micro irrigation and covers the

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area of performance, practices, and design, focusing particularly on the performance of vegetable, fruit and row crops in conjunction with different scheduling and practices. Irrigation scheduling is an

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important water management strategy, and this book addresses scheduling methods and issues. Design aspects of micro irrigation systems have also been discussed in the book. The authors present their

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research and studies on scheduling practices and design micro irrigation systems with a variety of fruits and vegetables, including peppers, chili, watermelon, oranges, banana, litchi, rice, sugarcane, sorghum,

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and marigolds. Micro Irrigation Scheduling and Practices will serve as a valuable reference for researchers, water resources professionals, agricultural extension agencies, farmers, and faculty and students.

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Sustainable Micro Irrigation
Design Systems for Agricultural
Crops

Engineering Hydrology

Dairyceuticals, Novel

Technologies, and Quality

Irrigation Engineering Hydraulic

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Structures

River Hydraulics and Irrigation
Water Management

Irrigation Engineering And
Hydraulic Structures
Irrigation
Engineering and Hydraulic
Structures S. Chand Publishing

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Micro irrigation, also known as trickle, drip, localized, high frequency, or pressurized irrigation, is an irrigation method that saves water and fertilizer by allowing water to drip slowly to the roots of plants, either onto

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the soil surface or directly onto the root zone, through a network of valves, pipes, tubing, and emitters. It is done through narrow tubes that deliver water directly to the base of the plant. Clogging is a menace in the

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success of drip irrigation systems, and the situation is more complex under subsurface drip irrigation. Irrigation planners and engineers have found a variety of innovative methods to help to minimize clogging. This

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book emphasizes the implications of micro irrigation clogging, especially under the subsurface placement of laterals. The book offers remedies to decrease clogging and methodologies to improve the

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performance of micro sprinklers.
This valuable resource
addresses this critical problem,
covering: Challenges in clogging
under subsurface drip irrigation
Principles, practices, and
management of emitter clogging

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Efficiency of acidification for unclogging of emitters
Performance characteristics of micro sprinklers The book will serve as a reference manual for professionals in biological and civil engineering, horticulture, soil

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and crop science, and agronomy, as well as for graduate and undergraduate students in related fields. It will be a valuable reference for professionals who work with micro irrigation/wastewater and

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water management and for technical agricultural centers, irrigation centers, agricultural extension services, and other agencies that work with micro irrigation programs.

This book presents a variety of

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policy adoption methods, irrigation scheduling, and design procedures in micro irrigation engineering for horticultural crops. The chapters range from policy interventions to applications of systems for

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different crops and under
different land conditions.

Compiling valuable information
and research, the book is divided
into three main sections: Policy
Options: Drip Irrigation Among
Adopters Irrigation Scheduling of

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Horticultural Crops Design of
Drip Irrigation Systems The
editors present valuable
research and information on
micro irrigation methods in an
effort to focus on innovation and
evolving new paradigms for

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efficient utilization of water resources. The adoption of micro irrigation systems can be a panacea for irrigation related problems and can help to increase the yield and area under cultivation, especially for

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small farmers without abundant technological resources. Micro Irrigation Engineering for Horticultural Crops: Policy Options, Scheduling, and Design will be valuable for agricultural engineering students, irrigation

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engineers, and
scientists/professors in
engineering.

Irrigation and Water Resources
Engineering

Irrigation engineering, by...

A Text Book of Irrigation

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Engineering

Hydrological Extremes

Irrigation Engineering and

Hydraulic Structures

This new book, Sustainable

Micro Irrigation Design

Systems for Agricultural

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Crops, brings together the best research for efficient micro irrigation methods for field crops, focusing on design methods and best practices. Covering a multitude of topics, the book

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presents research and studies
on: Indigenous alternatives for
use of saline and alkali waters
Hydraulic performance
Distribution of moisture
Fertigation technology Buried
micro irrigation laterals Drip

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irrigation scheduling
Rainwater harvesting Adoption
and economic impact of a
micro irrigation model This
book is a must for those
interested in irrigation
planning and management,

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namely, researchers,
scientists, educators, and
students.

Irrigation Engineering and
Hydraulic Structures
comprehensively deals with all
aspects of Irrigation in India,

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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

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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

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as suggest improvements in the application of existing methods and adoption of latest techniques used in other parts of the world.

Peterson's Graduate Programs
in Engineering & Applied

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Sciences,
Aerospace/Aeronautical
Engineering, Agricultural
Engineering & Bioengineering,
and Architectural Engineering
contains a wealth of
information on colleges and

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universities that offer graduate work these exciting fields. The institutions listed include those in the United States and Canada, as well as international institutions that are accredited by U.S.

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accrediting bodies. Up-to-date information, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional

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accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses,

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financial support, faculty research, and unit head and application contact information. Readers will find helpful links to in-depth descriptions that offer additional detailed information

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about a specific program or department, faculty members and their research, and much more. In addition, there are valuable articles on financial assistance, the graduate admissions process, advice

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for international and minority students, and facts about accreditation, with a current list of accrediting agencies. Practices of Irrigation & On-farm Water Management: Volume 2

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IRRIGATION ENGINEERING

Micro Irrigation Scheduling
and Practices

Principles and Practice of
Irrigation Engineering

Irrigation and Water Power
Engineering

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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

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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

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engineering students and practising engineers in the country and abroad duly patronised by the publications, Shri Ravindra Kumar Gupta, Managing Director, S.Chand & Company

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Ltd., New Delhi

China and Russia are rising economic and political powers that share thousands of miles of border. Despite their proximity, their interactions with each other - and with their third neighbour

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Mongolia - are rarely discussed. Although the three countries share a boundary, their traditions, languages and worldviews are remarkably different. Frontier Encounters presents a wide range of views

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on how the borders between these unique countries are enacted, produced, and crossed. It sheds light on global uncertainties: China's search for energy resources and the employment of its huge

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population, Russia's fear of Chinese migration, and the precarious independence of Mongolia as its neighbours negotiate to extract its plentiful resources. Bringing together anthropologists, sociologists and

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economists, this timely collection of essays offers new perspectives on an area that is currently of enormous economic, strategic and geo-political relevance.

Water is now at the centre of

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world attention as never before and more professionals from all walks of life are engaging in careers linked to water – in public water supply and waste treatment, agriculture, irrigation, energy, environment, amenity

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management, and sustainable development. This book offers an appropriate depth of understanding of basic hydraulics and water resources engineering for those who work with civil engineers and others in

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the complex world of water resources development, management, and water security. It is simple, practical, and avoids (most of) the maths in traditional textbooks. Lots of excellent 'stories' help readers to

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quickly grasp important water principles and practices. This third edition is broader in scope and includes new chapters on water resources engineering and water security. Civil engineers may also find it a useful

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introduction to complement the more rigorous hydraulics textbooks.

Micro Irrigation Systems in India
Proceedings of the International
Conference on Water and
Environment (WE-2003),

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December 15-18, 2003, Bhopal,
India

Water Management and Water
Governance

Watershed Hydrology

Water Resources System

Operation

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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-

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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

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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.

This book fills the need for an up-to-

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date comprehensive text on irrigation water management for students of agriculture both at the undergraduate and postgraduate levels. The scope of the book makes it a useful reference for courses in agricultural engineering,

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agronomy, soil science, agricultural physics and environmental sciences. It can also serve as a valuable guidebook to persons working with farming communities. The coverage in fifteen chapters brings out different

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aspects of irrigation including irrigation situation in the world, rainfall, evaporation, water wealth and progressive development of irrigation in India, measurement of soil water and irrigation water, methods of irrigation, irrigation with

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saline water, formulating cropping pattern in irrigated area and management of high water table. This book focusses on hydrological modeling, water management, and water governance. It covers the applications of remote sensing and

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GIS tools and techniques for land use and land cover classifications, estimation of precipitation, evaluation of morphological changes, and monitoring of soil moisture variability. Moreover, remote sensing and GIS techniques

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have been applied for crop mapping to assess cropping patterns, computation of reference crop evapotranspiration, and crop coefficient. Hydrological modeling studies have been carried out to address various issues in the water

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sector. MODFLOW model was successfully applied for groundwater modeling and groundwater recharge estimation. Runoff modeling has been carried out to simulate the snowmelt runoff together with the rainfall and sub-

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surface flow contributions for snow-fed basins. A study has been included, which predicts the impact of the land use and land cover on stream flow. Various problems in the water sector have been addressed employing hydrological

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models such as SWAT, ArcSWAT, and VIC. An experimental study has been presented wherein the laboratory performance of rainfall simulator has been evaluated. Hydrological modeling studies involving modifications in the curve

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number methodology for simulation of floods and sediment load have also been presented. This book is useful for academicians, water practitioners, scientists, water managers, environmentalists, and administrators, NGOs, researchers,

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and students who are involved in water management with the focus on hydrological modeling, water management, and water governance.

*Emergence, Status and Impacts
AMIE (section B) Exams : U.P.S.C.*

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*and Other State Service
Competitions : and for
Professionals]*

*Knowledge and Practice at the
Russian, Chinese and Mongolian
Border*

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Irrigation Engineering And Hydraulic Structures

The comprehensive and compact presentation in this book is the perfect format for a resource/textbook for undergraduate students in the areas of Agricultural Engineering, Biological Systems Engineering, Bio-Science

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Engineering, Water Resource Engineering, and Civil & Environmental Engineering. This book will also serve as a reference manual for researchers and extension workers in such diverse fields as agricultural engineering, agronomy, ecology, hydrology, and meteorology.

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Sections 1-4 of 20

*Irrigation Engineering and Hydraulic
Structures for [Civil Engineering
Degree Students*

Irrigation Engineering

Frontier Encounters

*Irrigation Engineering (Including
Hydrology)*