

# Irrigation Engineering By R K Sharma

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PRINCIPLES OF  
ELECTRONICS GANGULY,  
PARTHA KUMAR 2015-09-16  
This book is intended  
for the undergraduate  
students of electrical  
and electronics  
engineering, electronics

and communication  
engineering, and  
electronics and  
instrumentation  
engineering of various  
universities and state  
boards of technical  
education. In the entire  
book the approach in

explaining a concept has been to take the reader from known to unknown and from simple to complex. Care has been taken to make the presentation student-friendly by showing step-by-step procedures wherever necessary to hold the reader's attention throughout the book. The book has been developed on the basis of author's long experience of teaching technical students as well as training technical professionals. Both the students, and the teachers will find this book useful and interesting to read. Key features • Exclusive coverage of the syllabus prescribed for the undergraduate students of engineering. • In-depth presentation of all key topics. • Sufficient worked-out examples to support and reinforce concepts. • Pedagogical features

such as chapter wise key points to recall concepts and exercises as well as numerical problems with answers for practice.

### **A Textbook of Transportation Engineering**

SP Chandola  
2008 For Civil Engineering Students of All Indian Universities and Practicing Engineers  
**Textbook of Irrigation Engineering and Hydraulic Structures** R. K. Sharma 1984

**Water Power Engineering,**  
1E M. M. Dandekar  
2009-11

*Sustainable Micro Irrigation* Megh R. Goyal  
2014-07-14 This new book, Principles and Practices of Sustainable Micro Irrigation, is the first in the new series on micro irrigation, which offers a vast amount of knowledge and techniques necessary to develop and manage a drip/trickle or micro irrigation system.

Written by experienced scientists from various parts of the world, the chapters in this book offer basic principles, knowledge, and techniques of micro irrigation management, which are essential in designing, developing, and evaluating an agricultural irrigation management system. The methods and techniques have worldwide applicability to irrigation management in agriculture. The book includes coverage of many important topics in the field, including:

- An historical review of micro irrigation
- The current global status of the field and its potential
- Basic principles and applications
- New research on chemigation and fertigation
- Technologies for specific crops, such as sugar cane
- Irrigation software for micro

irrigation design • Affordable and low-cost micro irrigation solutions for small farms and farms in developing countries • Micro irrigation design using Hydrocalc software

This book is a must for those interested in irrigation planning and management, namely, researchers, scientists, educators, and students.

Chemistry and Water  
Satinder Ahuja  
2016-11-23 After air, water is the most crucial resource for human survival. To achieve water sustainability, we will have to deal with its scarcity and quality, and find ways to reclaim it from various sources.

Chemistry and Water: The Science Behind Sustaining the World's Most Crucial Resource applies contemporary and sophisticated separation science and chromatographic methods

to address the pressing worldwide concerns of potable water for drinking and safe water for irrigation to raise food for communities around the world. Edited and authored by world-leading analytical chemists, the book presents the latest research and solutions on topics including water quality and pollution, water treatment technologies and practices, watershed management, water quality and food production, challenges to achieving sustainable water supplies, water reclamation techniques, and wastewater reuse. Explores the role water plays to assure our survival and maintain life Provides valuable information from world leaders in chemistry and water research Addresses water challenges and solutions globally to ensure sustainability

*Irrigation Engineering And Hydraulic Structures*  
Santosh Kumar Garg 2009  
*Sustainable Environment and Infrastructure*  
Krishna R. Reddy  
2020-09-16 This volume contains selects papers presented during the 2nd International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering, held in the University of Illinois at Chicago. It covers the recent innovations, trends, and concerns, practical challenges encountered, and the solutions adopted in waste management and engineering, geotechnical and geoenvironmental engineering, infrastructure engineering, and sustainable engineering. This book will be useful for academics, educators, policy makers and professionals

working in the field of civil engineering, chemical engineering, environmental sciences and public policy.

### **Natural Resources Management and Biological Sciences**

Edward R Rhodes

2021-02-17 The natural resources of the Earth are indispensable for the survival of humans, plants, and animals and for the state of biodiversity. The way they are managed determines the extent to which they will be preserved for future generations. Climate change underscores the need for the proper use of natural resources. This book brings together reviews of literature and the results of research studies on the status and management of soil, water, plant, and wildlife resources, especially as they relate to the biological

sciences, in Africa, Asia, Europe, North America, and Latin America. It covers work on classification and inventories, impacts of anthropogenic activities, and exploitation and conservation. The book will be of interest to scientists and practitioners of natural resource management worldwide.

### Irrigation and Drainage Engineering Peter Waller

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.

### **River System Analysis and Management**

Nayan Sharma 2016-11-13 The main thrust of this book is focused on addressing the various interrelated processes, analysis and activities bearing upon sound river management. River basins are complex systems. They are open systems with sometimes ill-defined boundaries. It refers to various aspects essential to achieve a sustainable development of river basins, including water demand and river management. Intensified erosion, land water degradation and stream flow pollution which call for appropriate river restoration and training measures. A viable theory for river management must reconcile the various processes that occur at

different scales in order to develop a knowledge base by synthesizing research and field studies results. The book is intended to augment the knowledge base of behaviour of rivers and analyse the issues related to rivers so as to develop river system management techniques emerging from in-depth scientific analysis as a priority. This book pools together the expertise, the in-depth knowledge and the experience of the people representing different disciplines bearing on the related aspects of analysis and management of river systems. Audience The book is expected to be useful to academics, practitioners, scientists, water managers, environmentalists, administrators, researchers and students

who are involved and have stakes in water management and river system analysis. Pile Foundations in Engineering Practice Shamsheer Prakash 1991-01-16 This is a concise, systematic and complete treatment of the design and construction of pile foundations. Discusses pile behavior under various loadings and types of piles and their installation, including consideration of soil parameters. It provides step-by-step design procedures for piles subject to vertical loading and pullout, lateral, inclined and eccentric loads, or dynamic loads, and for piles in permafrost. Also describes load test procedures and their interpretation and buckling of long, slender piles with and without supported length. The closing

chapter presents case histories of prediction and performance of piles and pile groups.

Includes numerous solved problems.

*Basics of Agriculture for Engineers (Pbk)*

Rakesh Kumar Sharma

2014-01-01 Agriculture

Engineers must have the

knowledge of Basics of

Agriculture to perform

the services in their

respective field. The

book entitled "Basics of

Agriculture for

Engineers" is a

scientific approach for

understanding of the

problems concerning

soil, plants,

agricultural equipments

and their management. In

this book almost all the

aspects related to

basics of Agriculture

has been covered with

the balanced approach.

Language of the book is

simple, presentation is

lucid and unambiguous

for understanding of the

subject matter. This

book will be highly

useful for agricultural

engineers and students

as well as to those who

are working in the

relevant fields.

*Textbook of Irrigation*

*Engineering* R. K. Sharma

1991-04-01

**R.C.C Design & Drawing**

Neelam Sharma (M.E.)

2009

*Thermal Engineering* R.K.

Rajput 2005

**Irrigation Systems**

**Engineering** Balram

Pannigrahi 2011-01-15

This is a text book for

agriculture and

agricultural engineers

and will be very much

helpful for the

beginning students in

irrigation. It is

designed to guide

students from a basic

knowledge of soil,

mathematics, hydrologic

and hydraulics to the

state-of-the-art

irrigation system design

and management. Since

major and medium

irrigation projects are

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too costly and at the same time are not eco-friendly, the major thrust of research is now being imparted on low cost and easy to construct farm irrigation structures. The primary aim of the book is to design an optimum size small scale water harvesting structure which is the farm pond mostly used by the farmers in the farms. My goal is to present 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 will not only be a helping tool to the students and teachers in agriculture and agricultural engineering

but also to all the practicing engineers, agriculturists, soil conservationists and agricultural extension workers who deal directly or indirectly with water management and other associated farm development works. However, the book cannot be used for design of complex hydraulic structures including dams and reservoir. The book contains 23 solved problems, 238 short and long type questions, 42 tables, 55 figures and more than 138 references which will be immensely helpful to the students and design engineer. Several field experimental results have also been incorporated in the book at appropriate sections to make the book interesting for the readers.

**Handbook of Engineering Hydrology (Three-Volume Set)** Saeid Eslamian

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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, 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. Students, practitioners, policy makers, consultants and researchers can benefit from the use of this text.

IRRIGATION AND WATER POWER ENGINEERING MADAN MOHAN DAS 2009-01-24

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 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.

**Fundamentals of Structural Analysis, 2nd Edition**

Roy, Sujit Kumar & Chakrabarty Subrata 2003 For B.E./B.Tech. in Civil Engineering and also useful for M.E./M.Tech. students. The book takes an integral look at structural engineering starting with fundamentals and ending with computer analysis. This book is suitable for 5th, 6th and 7th semesters of undergraduate course. In this edition, a new chapter on plastic analysis has been added. A large number of examples have been worked out in the book so that students can master the subject by practising the examples and problems.

**A Text Book of Hydrology**

P. Jaya Rami Reddy  
2005-12

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) S.S.

Bhavikatti 2009-01-01 So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel

structures as per IS: 2007 and this book will serve as a good textbook. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

*Engineering Practices for Management of Soil Salinity* S. K. Gupta  
2018-08-29 Abiotic stresses are known to adversely impact agricultural productivity on millions of hectares globally, and it is projected that these problems are likely to increase, primarily due to anthropogenic interventions as well as climatic changes. Understanding abiotic stresses—especially salt stress on soil—calls for an interdisciplinary approach because salt-stressed soils need hydro-technical, chemical, and agronomic interventions as well as

an understanding of plant response when exposed to these stresses. This volume explores and conveys the latest information on emerging technologies in the management of abiotic salt stress and their field applications. It brings together experts from various fields (academia, technology, and engineering) to provide the latest information and knowledge on this important challenge.

**Basic Civil Engineering and Engineering Mechanics (RGPV, Bhopal)**

Dr. R. K. Bansal  
2011-10-01

*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 For Flood Control, Project Planning In 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.

*Irrigation and Water Resources Engineering* G L Asawa 2006-01-01 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.

Concise Handbook of Civil Engineering

Vazirani V.N. & Chandola S.P. 1996 This 'Concise Handbook' has been prepared, keeping in view mainly the requirements of practising Civil Engineers, with all the essential of a useful 'Concise Handbook'. such as the latest design formulae, graphs, diagrams and tables etc., to solve day-to-day work problems. These details have been adopted mostly from the national building code. The book will be equally helpful to civil Engineering students and teachers.

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

**Irrigation Engineering** R. K. Sharma 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

**Sustainable Micro Irrigation Design Systems for Agricultural Crops** Megh R. Goyal 2015-08-20 This new book, Sustainable Micro Irrigation Design Systems for Agricultural 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 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 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, namely, researchers, scientists, educators, and students.

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

Engineering Thermodynamics R. K. Rajput 2010 Intended as a textbook for "applied" or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of

thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

**Hydraulic Structures** P. Novak 2017-12-21 Now includes Worked Examples for lecturers in a companion pdf! The

fourth edition of this volume presents design principles and practical guidance for key hydraulic structures. Fully revised and updated, this new edition contains enhanced texts and sections on: environmental issues and the World Commission on Dams partially saturated soils, small amenity dams, tailing dams, upstream dam face protection and the rehabilitation of embankment dams RCC dams and the upgrading of masonry and concrete dams flow over stepped spillways and scour in plunge pools cavitation, aeration and vibration of gates risk analysis and contingency planning in dam safety small hydroelectric power development and tidal and wave power wave statistics, pipeline stability, wave-structure

interaction and coastal modelling computational models in hydraulic engineering. The book's key topics are explored in two parts - dam engineering and other hydraulic structures – and the text concludes with a chapter on models in hydraulic engineering. Worked numerical examples supplement the main text and extensive lists of references conclude each chapter. Hydraulic Structures provides advanced students with a solid foundation in the subject and is a useful reference source for researchers, designers and other professionals. **Management, Performance, and Applications of Micro Irrigation Systems** Megh R. Goyal 2014-08-19 Management, Performance, and Applications of Micro Irrigation Systems, the fourth volume in the Research Advances in Sustainable

Micro Irrigation series, emphasizes sustainable and meaningful methods of irrigation to counter rampant water scarcity. In many parts of the world, this scarcity significantly affects crop yield, crop quality, and, consequently

*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.

**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

**Highway Engineering** L.R. Kadiyali 2017 This book on Highway Engineering shall be useful for B.E./B.Tech & M.E/ M.Tech students of Civil Engineering. It shall also be useful for practicing Engineering and designers.

*India's Ancient Past* R.S. Sharma 2006-09-18 This book presents a complete and accessible

description of the history of early India. It starts by discussing the origins and growth of civilizations, empires, and religions. It also deals with the geographical, ecological, and linguistic backgrounds, and looks at specific cultures of the Neolithic, Chalcolithic, and Vedic periods, as well as at the Harappan civilization. In addition, the rise of Jainism and Buddhism, Magadha and the beginning of territorial states, and the period of Mauryas, Central Asian countries, Satvahanas, Guptas, and Harshavardhana are also analysed. Next, it stresses varna system, urbanization, commerce and trade, developments in science and philosophy, and cultural legacy. Finally, the process of transition from ancient to medieval

India and the origin of the Aryan culture has also been examined.

### **IRRIGATION ENGINEERING**

H.M. Raghunath

2011-05-01 Market\_Desc:

For the undergraduate students of civil engineering at major Indian universities and engineering colleges.

The text is also useful to the experts and professionals in the field of irrigation and agriculture. Special

Features: · Presents neatly-drawn drawings of dams, spillways, canals and cross-drainage works, not provided with any other book.·

Explains all aspects of soil moisture, irrigation systems, tanks, dams and canal river systems, water rights and environmental aspects.· Discusses live case studies of major dams (the Tehri Dam, the Almatti Dam) for easy understanding of some important concepts.·

Explains all topics with solved examples and neatly-drawn sketches.· Uses the SI units throughout the book.· Supplies chapter-end problems and objective questions for self assessments. About The Book: Irrigation Engineering is designed for the undergraduate students of civil engineering at major Indian universities and engineering colleges. The text is also useful to the experts and professionals in the field of irrigation and agriculture. The content 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 in different agro-climatic regions in India. With neatly-drawn sketches, the design of irrigation structures for storage, diversion, distribution and control are illustrated with exam-oriented worked-out examples. Part B of the book comprises 27 irrigation/hydraulic structures (called plates), presenting sketches with usual three-views to scale of dams, spillways, canals and cross-drainage works. These sketches are furnished with all details and dimensions (workable drawings) with lucid and complete designs.