

Irrigation Engineering By Basak

For Civil Engineering Students of All Indian Universities and Practicing Engineers
The book covers the important aspects of water, air and noise pollution. Using a multidisciplinary approach, it highlights the impact of environmental pollution in the world. It also suggests methods for controlling and scientific monitoring of pollution-causing agents. Also included are chapters on efficient guidelines and standards, radioactive waste, solid waste disposal and sewage treatment, oil pollution and role of insecticides. Pollution in tanneries, fertilizer industry, and pulp and paper industries is also covered. The last few chapters are devoted to environmental management, benefit-cost analysis and mathematical modelling for environmental pollution control

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

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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.

Primarily aimed to be an introductory text for the first course in surveying for civil, architecture and mining engineering students, this book, now in its second edition, is also suitable for various professional courses in surveying. Written in a simple and lucid language, this book at the outset, presents a thorough introduction to the subject. Different measurement errors with their types and nature are described along with measurement of horizontal distances and electronic distances measurements. This text covers in detail the topics in levelling, angles and directions and compass survey. The functions and uses of different instruments, such as theodolites, tacheometers and stadia rods are also covered in the text. Besides, the book elaborates different fields of surveying,

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such as plane table surveying, topographical surveying, construction surveying and underground surveys. Finally, the book includes a chapter on computer applications in surveying. **KEY FEATURES :** Includes about 400 figures to explain the fundamentals of surveying. Uses SI units throughout the book. Offers more than 170 fully-solved examples including the questions generated from premier universities. Provides a large number of problems and answers at the end of each chapter. Incorporates objective questions from AMIE exams and Indian Engineering Services exams.

This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The Most Common Surveying Operations. Each Topic Introduced Is Thoroughly Described, The Theory Is Rigorously Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments, Emphasis Has Been Placed On New Or Modern Instruments, Both For Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical

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Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations.

Railway Track Engineering presents conventional methods of track construction, maintenance and monitoring, along with modern sophisticated track machines. It also comprehensively covers design details and specifications of important track components. Changes in the revised edition include: Explanation of the hitherto little understood phenomenon of rolling contact fatigue in rails and practical steps to deal with it. New technology of alumino-thermic rail welding. New guidelines for ultrasonic rail flaw detection. Ballastless track for metros, mainlines and washable aprons. Track standards for ultra high-speed lines in India. Track structure for Dedicated Freight Corridors. Technology of fully mechanized track construction with the deployment of simple track laying equipment to highly sophisticated track-laying trains. Richly illustrated with photographs and line drawings, this book will be useful to professionals and students.

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

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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

The book, now in its second edition, fulfills the need for an up-to-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, 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 sixteen chapters brings out different 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 saline water, formulating cropping pattern in irrigated area and management of high water table. In the second edition, a new chapter on 'On-farm Irrigation System' has been included and a few chapters have been updated to include latest development. The book has useful research data and a large number of diagrams for easy comprehension of the topics. The end-of-chapter problems and numerous worked-out examples serve to aid further understanding of the subject. The book also contains an extensive glossary.

The First Edition of this treatise on Irrigation Engineering duly subsidised by national Book

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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

The Book Provides A Lucid And Step-By-Step Treatment Of The Various Principles And Methods For Solving Problems In Land Surveying. Each Chapter Starts With Basic Concepts And Definitions, Then Solution Of Typical Field Problems And Ends With Objective Type Questions. The Book Explains Errors In Survey Measurements And Their Propagation. Survey Measurements Are Detailed Next. These Include Horizontal And Vertical Distance, Slope, Elevation, Angle, And Direction. Measurement Using Stadia Tacheometry And Edm Are Then Highlighted, Followed By Various Types Of Levelling Problems. Traversing Is Then Explained, Followed By A Detailed Discussion On Adjustment Of Survey Observations And Then Triangulation And Trilateration. A Detailed Discussion On Various Types Of Curves And Their Setting Out Is Followed By Calculation Of Areas And Volumes. The Last Chapter Includes Point Location And Setting Out Works In Civil Engineering Projects. Suitable Illustrations And Worked Out Examples Are Included Throughout The Book. Selected Practice Problems Are Given At The End Of The Book. The Book Would Serve As An Excellent Text For Degree And Diploma Students Of Civil Engineering. Amie Candidates And Practicing Engineers Would Also Find This Book Extremely Useful.

Completely covers the diploma syllabus of various State Boards of Technical Education

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and AMIE Section – B for the course in Environmental Engineering.

This book brings together, and integrates the three principal areas of environmental engineering water, air, and solid waste management. It introduces a unique approach by emphasizing the relationship between the principles observed in natural purification processes and those employed in engineered systems. First, the physical, chemical, mathematical, and biological principles that define, measure and quantify environmental quality are described. Next, the processes by which nature assimilates waste material are discussed and the natural purification processes that form the basis of engineered systems are detailed. Finally, the engineering principles and practices involved in the design and operation of environmental engineering works are covered at length. Written in a lucid style and offering abundant illustrations and problems, the book provides a treatment of environmental engineering that can be understood by a wide range of readers.

This text on building materials includes discussion of structural clay products, rocks and stones, wood, materials for making concrete, ferrous and non-ferrous metals, and miscellaneous materials.

This manual (most of whose modules were originally published 2001-2002) aims at strengthening various aspects of irrigation development, mainly emphasizing the engineering, agronomic and economic aspects of smallholder irrigation, in view of the limited practical references available in this area. It also introduces the irrigation

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practitioner to the social, health and environmental aspects, providing a bridge between the various disciplines involved in irrigation development.--Publisher's description.

This book gives emphasis to wood fiber raw materials, alternative sources of fibers for paper production, environmental issues, paper quality improvement and cost of paper production. Varieties of non-wood raw materials, including kenaf, rice straw, empty fruit bunches of palm trees, bamboo, bagasse, etc., are considered in this book. The process of fiber treatment also varied to meet paper quality improvement. Different organosolv processes of fiber treatment are discussed. Considering contemporary issues, one particular chapter analyzes the environmentally friendly way of processing non-wood fibers for paper production. The book also contains a chapter on the by-product raw materials of paper production and their profitable applications.

This book contains papers presented at the International Symposium on Urban Development held in the Kurdistan region of Iraq, organised by the Faculty of Engineering at Koya University. The Kurdistan region is rich in oil, gas, mineral resources and underground water. However, until recently the political and security issues were such that the region was unable to take advantage of those resources. Nowadays, Kurdistan is emerging as one of the fastest developing areas in the Middle East, with its universities playing a major role in this process. The aim of the meeting was to focus the research carried out at academic and government institutions with the needs of Society. The International Symposium papers included in this volume cover a wide range of topics and are written by people with different specialisations and perspectives.

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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 Tata McGraw-Hill Education
Surveying and Levelling McGraw Hill Education (India) Pvt Ltd
Environmental Engineering Tata McGraw-Hill Education
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

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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.

This book fills the need for an up-to-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, 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

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brings out different 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 saline water, formulating cropping pattern in irrigated area and management of high water table.

?ABOUT THE BOOK: The earlier fifth editions of the book have received immensely encouraging response from the students as well as the teachers. This has enabled bringing out of the sixth edition of the book so soon. While the main objectives of the fifth edition are identical with those of the fourth edition, the book has been thoroughly revised and several new articles have been added. The subject matter has been presented in a simple language. The basic principles involved in the design of various irrigation works have been thoroughly explained. The book covers the complete syllabus of this subject for the students studying at first degree course of the various Indian universities. Some advanced topics included in the book will be useful for the students studying at the post graduate level. The book will be quite useful for the various competitive examinations such as Engineering services and ICS examinations and it will be equally suitable for the students preparing for AMIE examinations.

?RECOMMENDATIONS: [S.I. UNITS] (A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations) ?ABOUT THE AUTHOR: B.E., M.E., Ph.D. Former Professor of Civil Engineering, M.R. Engineering College, (Now M.N.I.T.), Jaipur. ?BOOK DETAILS: ISBN: 978-81-87401-29-0 Pages: 1214 + 18

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Paperback Edition: 11th, Year - 2020 Size(cms): L-24.2, B-18.3, H-5.2 ?For more Offers visit our Website: www.standardbookhouse.com

Completely covers the diploma syllabus of various State Boards of Technical Education and AMIE Section – B for the course in Environmental Engineering.

The book in its present form introduces detailed descriptions and illustrative solved problems in the fields of Water Supply, Sanitary and Environmental Engineering. The entire subject matter has been split up in three parts: Part I Water Supply Engineering Part II Sanitary Engineering Part III Environmental Engineering. The first part deals with Water Supply Engineering which is related to demand of water for various purposes in human life, sources of water supply, quantity and quality of water, treatment and distribution of water, etc. The second part deals with Sanitary Engineering which is related to quality and quantity of sewage, construction and design of sewers, methods of treatment of sewage, etc. The third part discusses various aspects of Environmental Engineering including air pollution, noise pollution, etc. A typical design of a domestic sewage treatment plant is given in the Appendix as an additional attraction. The book now contains: * 253 * 140 * 60 * 610 Self-explanatory and neat diagrams Illustrative problems Useful tables Questions at the end of chapters. It is hoped that the book in its present form will be extremely useful to the Engineering students preparing for the Degree Examinations in Civil Engineering of all the Indian Universities, Diploma Examinations conducted by various Boards of Technical Education, Certificate Courses

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as well as for A.M.I.E., U.P.S.C., other similar Competitive and Professional Examinations.

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.

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