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ENVIRONMENTAL ENGINEERING

[Tata McGraw-Hill Education](#)

IRRIGATION ENGINEERING

[Tata McGraw-Hill Education](#)

ENVIRONMENTAL STUDIES

[Pearson Education India](#) **Environmental Studies covers the course requirements for undergraduate students of all disciplines. It aims to educate the readers about nature, ecosystems, natural resources, biodiversity, pollution, and the current challenges faced by environmentalists. It integrates the social impact associated with environmental issues through national and international case studies.**

ENVIRONMENTAL ENGG

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

PRACTICAL CIVIL ENGINEERING

[CRC Press](#) **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

ENERGY AND SUSTAINABILITY V

[WIT Press](#) **Energy and Sustainability V is the proceedings of the 5th International Conference on Energy and Sustainability, held by the Wessex Institute of Technology. The modern world is highly dependent on the exploitation of fossil fuels. More recently, resources depletion and severe environmental effects deriving from the continuous use of these fuels has**

resulted in an increasing amount of interest in renewable energy resources and the search for sustainable energy policies. The changes required to progress from an economy mainly based on hydrocarbons to one taking advantage of sustainable energy resources are massive and require considerable scientific research as well as engineering systems. The effect also involves collaboration between different disciplines in order to arrive at optimum solutions, including buildings, energy networks, convenience systems, new energy storage solutions, waste to energy technologies, and many others. This book covers topics related to sustainability in energy and power production, storage, distribution and management. These include: Smart grids; Smart metering; Green ICT; Green buildings; Energy storage; Renewable energy resources; Plug-in Hybrid Vehicles (PHEV); Biofuels (solid, liquid, gas); Waste to energy; CO2 capturing and management; Energy and transportation; Environmental risk; Energy policies; Greener power plant technologies; Hydrogen recovery techniques; Sustainable energy production.

TEXTBOOK OF ENVIRONMENTAL ENGINEERING

PHI Learning Pvt. Ltd. Designed for a first-course in environmental engineering for undergraduate engineering and postgraduate science students, the book deals with environmental pollution and its control methodologies. It explains the basic environmental technology - environmental sanitation, water supply, waste management, air pollution control and other related issues - and presents a logical and systematic treatment of topics. The book, an outgrowth of author's long experience in teaching the postgraduate science and engineering students, is presented in a student-oriented approach. It is interspersed with solved examples and illustrations to reinforce many of the concepts discussed and apprise the readers of the current practices in areas of water processing, water distribution, collection and treatment of domestic sewage and industrial waste water, and control of air pollution. It emphasizes fundamental concepts and basic applications of environmental technology for management of environmental problems. Besides students, the book will be useful to the academia of environmental sciences, civil/environmental engineering as well as to environmentalists and administrators working in the field of pollution control.

IRRIGATION AND DRAINAGE ENGINEERING

Springer 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.

ENVIRONMENTAL ENGINEERING

McGraw-Hill Science, Engineering & Mathematics

A TEXTBOOK OF FLUID MECHANICS

Firewall Media

WASTE WATER ENGINEERING

Firewall Media

IRRIGATION AND WATER RESOURCES ENGINEERING

New Age International 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.

INTERPRETATION IN INTERNATIONAL LAW

Oxford University Press, USA The relevance of interpretation to the academic study and professional practice of international law is self-evident. As new insights on the practice and process of interpretation abound in other disciplines, international law and international lawyers have largely remained wedded to a rule-based approach, focusing almost exclusively on the Vienna Convention on the Law of Treaties. Such an approach neglects interpretation as a distinct and admittedly broader field of theoretical inquiry. Interpretation in International Law brings together established and emerging international legal scholars to interrogate interpretation as a central concept in international law. The edited collection is creatively structured around the metaphor of the game, which captures and illuminates all the constituent elements of an act of interpretation. The object of the game of interpretation is to persuade one's audience that your own interpretation of the law is the correct one. The rules of play are known and complied with by the players, even though which cards to play is left to the skills and strategies of the individual players. There is also a meta-discourse about the game of interpretation 'playing the game of game-playing' which involves reflection about the nature of the game, its underlying stakes, and who gets to decide by what rules one should play. Through a series of diverse contributions, Interpretation in International Law reveals interpretation as an inescapable feature of all areas of international law. It will be of interest and utility to all international lawyers whose work touches upon theoretical or practical aspects of interpretation.

HAZARDOUS WASTE MANAGEMENT

SECOND EDITION

Waveland Press Hazardous waste management is a complex, interdisciplinary field that continues to grow and change as global conditions change. Mastering this evolving and multifaceted field of study requires knowledge of the sources and generation of hazardous wastes, the scientific and engineering principles necessary to eliminate the threats they pose to people and the environment, the laws regulating their disposal, and the best or most cost-effective methods for dealing with them. Written for students with some background in engineering, this comprehensive, highly acclaimed text does not only provide detailed instructions on how to solve hazardous waste problems but also guides students to think about ways to approach these problems. Each richly detailed, self-contained chapter ends with a set of discussion topics and problems. Case studies, with equations and design examples, are provided throughout the book to give students the chance to evaluate the effectiveness of different treatment and containment technologies.

SUSTAINABLE ENVIRONMENT AND INFRASTRUCTURE

PROCEEDINGS OF EGRWSE 2019

Springer Nature This volume contains selected 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.

ENVIRONMENTAL ENGINEERING

KHANNA PUBLISHING HOUSE This book covers the syllabi of "Environmental Engineering" and "Public Health Engineering" of various Indian Universities. The book is recommended in AICTE model curriculum. The book has been divided in 3 part; namely; Water Supply Engineering; Sewage Engineering and Air Pollution Engineering. The book is useful for Degree as

well as Diploma students and is also likely to be useful for practising engineers in this field

NIGERIAN SCHOOL HEALTH JOURNAL

ENVIRONMENTAL ENGINEERING

McGraw-Hill Publishing Company

IRRIGATION ENGINEERING AND HYDRAULIC STRUCTURES

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.

DESIGN OF STEEL STRUCTURES (BY LIMIT STATE METHOD AS PER IS: 800 2007)

I. K. International Pvt Ltd 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 SURVEYING

CRC Press Engineering surveying involves determining the position of natural and man-made features on or beneath the Earth's surface and utilizing these features in the planning, design and construction of works. It is a critical part of any engineering project. Without an accurate understanding of the size, shape and nature of the site the project risks expensive and time-consuming errors or even catastrophic failure. This fully updated sixth edition of Engineering Surveying covers all the basic principles and practice of the fundamentals such as vertical control, distance, angles and position right through to the most modern technologies. It includes: * An introduction to geodesy to facilitate greater understanding of satellite systems * A fully updated chapter on GPS, GLONASS and GALILEO for satellite positioning in surveying * All new chapter on the important subject of rigorous estimation of control coordinates * Detailed material on mass data methods of photogrammetry and laser scanning and the role of inertial technology in them With many worked examples and illustrations of tools and techniques, it suits students and professionals alike involved in surveying, civil, structural and mining engineering, and related areas such as geography and mapping.

ENVIRONMENTAL ENGINEERING

John Wiley & Sons Incorporated A banner edition of the prominent reference covering environmental engineering Upholding the reputation of its predecessors as the most trusted single-source handbook on the subject, this new edition of Environmental Engineering provides up-to-date, practical guidance on a full range of environmental issues, while delivering the critical material on sanitation management and engineering used by today's leaders in the field. Emphasizing environmental control through practical applications of sanitary science and engineering theories and principles, this Fifth Edition includes new chapters from leading experts, as well as new material by Franklin Agardy; Anthony Wolbarst and Weihsueh Chiu; George Tchobanoglous; Walter Lyon; Glen Nemerow and Laurie Bloomer; John Kieffer; Tim Chinn; Robert Jacko and Tim LaBreche; and Xudong Yang. Environmental Engineering's highly illustrative coverage addresses environmental control in urban, suburban, and rural settings-including general design, construction, maintenance, and operation details related to plants and structures-with new material on such topics as: Soil and groundwater remediation Radiation exposure and safety Environmental emergencies and preparedness Hazardous waste remediation Incineration Transporting pollutants Communicable and noninfectious diseases Food protection Noise control Water filtration system technology Solid waste management Environmental Engineering, Fifth Edition is an essential reference for environmental and civil engineers,

environmental consultants and scientists, and regulatory and safety professionals in the public and private sectors.

ADVANCED SURVEYING: TOTAL STATION, GIS AND REMOTE SENSING

Lulu Press, Inc Modern Surveying is unimaginable without the use of electronic equipment and information technology. Surveying with conventional systems has been completely replaced with advanced automated systems. Total Station, Global Positioning System (GPS), Remote Sensing and Geographical Information System (GIS) have all become an inextricable part of surveying. Advanced Surveying: Total Station, GIS and Remote Sensing provides a thorough working knowledge of these technologies.

SURVEYING VOL. I

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

SOLID MECHANICS: A VARIATIONAL APPROACH

McGraw-Hill Companies

SOLID WASTE ENGINEERING AND MANAGEMENT

VOLUME 1

Springer Nature This book is the first volume in a three-volume set on Solid Waste Engineering and Management. It provides an introduction to the topic, and focuses on legislation, transportation, transfer station, characterization, mechanical volume reduction, measurement, combustion, incineration, composting, landfilling, and systems planning as it pertains to solid waste management. The three volumes comprehensively discuss various contemporary issues associated with solid waste pollution management, impacts on the environment and vulnerable human populations, and solutions to these problems.

ENVIRONMENTAL ENGINEERING & MANAGEMENT

FUNDAMENTALS OF SURVEYING

PHI Learning Pvt. Ltd. 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, 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.

TEXTBOOK OF ENVIRONMENTAL STUDIES FOR UNDERGRADUATE COURSES

Universities Press The Importance Of Environmental Studies Cannot Be Disputed Since The Need For Sustainable Development Is A Key To The Future Of Mankind. Recognising This,

The Honourable Supreme Court Of India Directed The Ugc To Introduce A Basic Course On Environmental Education For Undergraduate Courses In All Disciplines, To Be Implemented By Every University In The Country. Accordingly, The Ugc Constituted An Expert Committee To Formulate A Six-Month Core Module Syllabus For Environmental Studies. This Textbook Is The Outcome Of The Ugc S Efforts And Has Been Prepared As Per The Syllabus. It Is Designed To Bring About An Awareness On A Variety Of Environmental Concerns. It Attempts To Create A Pro-Environmental Attitude And A Behavioural Pattern In Society That Is Based On Creating Sustainable Lifestyles And A New Ethic Towards Conservation. This Textbook Stresses On A Balanced View Of Issues That Affect Our Daily Lives. These Issues Are Related To The Conflict Between Existing `Development Strategies And The Need For `Conservation . It Not Only Makes The Student Better Informed On These Concerns, But Is Expected To Lead The Student Towards Positive Action To Improve The Environment. Based On A Multidisciplinary Approach That Brings About An Appreciation Of The Natural World And Human Impact On Its Integrity, This Textbook Seeks Practical Answers To Make Human Civilization Sustainable On The Earth S Finite Resources. Attractively Priced At Rupees One Hundred And Fifteen Only, This Textbook Covers The Syllabus As Structured By The Ugc, Divided Into 8 Units And 50 Lectures. The First 7 Units, Which Cover 45 Lectures Are Classroom Teaching-Based, And Enhance Knowledge Skills And Attitude To Environment. Unit 8 Is Based On Field Activities To Be Covered In 5 Lecture Hours And Would Provide Students With First Hand Knowledge On Various Local Environmental Issues.

A TEXTBOOK OF STRENGTH OF MATERIALS

(IN S.I. UNITS)

Laxmi Publications

INTRODUCTION TO ENVIRONMENTAL ENGINEERING AND SCIENCE

Appropriate for undergraduate engineering and science courses in Environmental Engineering. Balanced coverage of all the major categories of environmental pollution, with coverage of current topics such as climate change and ozone depletion, risk assessment, indoor air quality, source-reduction and recycling, and groundwater contamination.

BASIC ENVIRONMENTAL ENGINEERING [ELECTRONIC RESOURCE]

About the Book: This textbook provides the basic information about the Environmental Engineering and as such, very much useful for the first year B. Tech. students of all branches/disciplines. The book covers the new syllabus of the semester scheme for the first year in R.T.U. and other universities. It encompasses the practical applications of the subject, that is the real need of the hour and also discusses the major environmental problems we face today. Key features Contains authentic information provided by the different Manuals prepared by The C.P.H.E.E.O. Includes examples of diffe.

NEO-THINKING ON GANGES-BRAHMAPUTRA BASIN GEOMORPHOLOGY

Springer This book explores the latest advances in our understanding of the evolution of the Ganga-Brahmaputra delta, examining the Damodar basin, Bhagirathi-Hooghly basin and Jalangi basin from historical, quantitative and applied geomorphology perspectives. The evolution of the Ganga-Brahmaputra delta is highly complex and remains poorly understood. To address that gap, this edited volume presents 11 research papers: the first seven chapters focus on the pure geomorphology and geohydrology of the delta, while the remaining four examine its applied geomorphological aspects. The book offers a valuable guide for geologists, geographers, hydrologists, landscape ecologists, environmentalists, engineers, planners and policy makers.

URBAN INFRASTRUCTURE RESEARCH

A REVIEW OF ETHIOPIAN CITIES

Springer This book reviews contemporary research on urban infrastructure in 76 Ethiopian cities. It examines urban infrastructure issues in these cities and covers a wide range of topics from sustainability and smart cities to research methods employed by urban infrastructure investigators with regard to Ethiopian cities. Research on urban infrastructure legitimacies and modalities has established its value worldwide in recent years, though it is still fairly young in the Ethiopian context. The first chapter outlines ongoing issues of debate concerning urban infrastructures, including but not limited to discourses on sustainability, smart cities, innovative financing methods, and potential partnerships. Urban

infrastructure issues in Ethiopian cities are examined in the second chapter, while the third chapter presents a review of the most relevant literature for researchers. Findings show that the citations in the research reports are mainly from the materials available over the internet, including WHO, UN-Habitat and unpublished local materials. The fourth chapter identifies patterns in the findings and recommendations of the research reports discussed. The results reveal that there is a wider gap between supply and demand with regard to urban infrastructure in Ethiopian cities, a situation that is further aggravated because of the growing urban population and already existing backlogs. The fifth chapter reviews the essential methods employed by urban infrastructure investigators in Ethiopian cities. In this regard, the cross-sectional study method with the use of survey method has been broadly adopted among investigators. Lastly, the book presents a summary and recommendations. It was observed that the urban infrastructure boom in Ethiopia is primarily concentrated in the key cities, and the current pattern of urban infrastructure provision does not incorporate the notion of sustainability. Hence, the book calls for setting the agenda of future research on urban infrastructure and services in Ethiopian cities together with the universities, private sector and government, who should ideally collaborate to produce the knowledge needed to improve quality of life, welfare, productivity, and economic growth.

MIHIR'S HANDBOOK OF CHEMICAL PROCESS ENGINEERING (EXCERPTS)

Mihir Patel This book will aid the chemical engineer to carry out chemical process engineering in a very practical way. The process engineer can use the excel based calculation templates effectively to do correct and proper process design. Chemical engineering is a very vast and complex field. This book aims to simplify the process engineering design. Design of a chemical plant involves one being adept in technical aspects of process engineering. The book aims at making the chemical engineer proficient in the art of process design. Included are chemical engineering basics on simulation, stoichiometry, fluid property calculation, dimensionless numbers, thermodynamics and on chemical engineering equipment like pump, compressor, steam turbine, gas turbine, flare, motor, fired heater, incinerator, heat exchanger, distillation column, fractionation column, absorber, stripper, packed column, solar evaporation pond, separator. Utility design of nitrogen, compressed air, water, effluent treatment, steam, condensate, desalination, fuel selection is covered. Many chemical engineering calculations have been included. Special process items like flame arrestor, demister, feed device, pressure reducing and desuperheating station (PRDS), vortex breaker, electric heater, manual valve have been covered. Process engineering design criteria, process control, material of construction, specialized process studies, safety studies, precommissioning and commissioning have been covered. Project engineer will also benefit from information provided on types of project (EPC, EPCM, Cost + Fee, etc) as well as interdisciplinary interaction between various engineering disciplines i.e. process, piping, mechanical, instrumentation, electrical, civil and THSE. Process engineering documentation like process design basis, process philosophies, process flow diagram (PFD), piping and instrumentation diagram (P&ID), block flow diagram (BFD), DP-DT diagram, material selection diagram (MSD), line list, summaries like utility summary, effluent and emission summary, tie in summary and flare relief load summary have been covered with blank templates. Excerpts from few chapters have been provided.

SOIL MECHANICS AND FOUNDATIONS

Firewall Media

WATER-RESOURCES ENGINEERING

W. W. Norton & Company Discusses the mechanical advantages of Jeeps, Land Rovers, and other rigs and describes optional equipment, driving techniques, and on-the-road repair procedures

TEXTBOOK OF SURVEYING

Universities Press This book presents, in SI units, the various methods and concepts of surveying, laying greater emphasis on those that are commonly used. Relevant historical aspects are given. Tracing the development of the subject and the methods. The book also gives an overview of certain advanced and modern surveying techniques such as precise traversing and levelling, aerial photogrammetry, airphoto interpretation, electronic distance measurement and remote sensing.

WATER SUPPLY ENGINEERING

Firewall Media

ENVIRONMENTAL ENGINEERING DICTIONARY AND DIRECTORY

CRC Press Like most technical disciplines, environmental science and engineering is becoming increasingly specialized. As industry professionals focus on specific environmental subjects they become less familiar with environmental problems and solutions outside their area of expertise. This situation is compounded by the fact that many environmental science related terms are confusing. Prefixes such as bio-, enviro-, hydra-, and hydro- are used so frequently that it is often hard to tell the words apart. The Environmental Engineering Dictionary and Directory gives you a complete list of brand terms, brand names, and trademarks - right at your fingertips.