Environmental Engineering Duggal

Irrigation and Water Resources EngineeringGeotechnical EngineeringGPS for Land Surveyors, Third EditionSurveying and LevellingWastewater EngineeringEnvironmental Assessment in PracticeEnvironmental StudiesEnvironmental Chemistry at a GlanceBasic and Applied Soil MechanicsSurveyingHandbook of Engineering HydrologyEnvironmental StudiesSolid Waste Management and Safe Drinking Water in Context of Mizoram and Other States in IndiaTheory And Problems In Structural Analysis (tmh Outline Series)Design Of Steel Structure 3EEnvironmental Pollution Control EngineeringIrrigation EngineeringBasic Civil EngineeringEngineering HydrologyAdvances in Bioremediation and PhytoremediationTEXTBOOK OF ENVIRONMENTAL ENGINEERINGLimit State Design of Steel StructuresEnvironmental Engineering ScienceBasic Environmental Engineering and Elementary Biology (WBUT)Environmental Science & EngineeringWaste Water EngineeringWASTEWATER TREATMENTWater Supply EngineeringTheory of StructuresEnvironmental EngineeringInternational Books in PrintIntro To Enviromental Sci & EnggElements of Water Resources EngineeringMaterial ScienceEarthquake Resistant Design of StructuresBuilding MaterialsTransportation Engineering and PlanningSurveyingEnvironmental EngineeringElements of Environmental Engineering

Irrigation and Water Resources Engineering

Geotechnical Engineering

GPS for Land Surveyors, Third Edition

Surveying and Levelling

Wastewater Engineering

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

Environmental Assessment in Practice

Environmental Studies

Environmental Chemistry at a Glance

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.

Basic and Applied Soil Mechanics

This Revised Edition Of The Book On Environmental Pollution Control Engineering Features A Systematic And Thorough Treatment Of The Principles Of The Origin Of Air, Water And Land Pollutants, Their Effect On The Environment And The Methods Available To Control Them. The Demographic And Environmental Trends, Energy Consumption Patterns And Their Impact On The Environment Are Clearly Discussed. Application Of The Physical, And Chemical Engineering Concepts To The Design Of Pollution Control Equipment Is Emphasized. Due Importance Is Given To Modelling, Quality Monitoring And Control Of Specific Major Pollutants. A Separate Chapter On The Management Of Hazardous Wastes Is Added. Information Pertaining To Indian Conditions Is Given

Wherever Possible To Help The Reader Gain An Insight Into India Sown Pollution Problems.This Book Is Mainly Intended As A Textbook For An Integrated One-Semester Course For Senior Level Undergraduate Or First Year Post-Graduate Engineering Students And Can Also Serve As A Reference Book To Practising Engineers And Decision Makers Concerned With Environmental Pollution Control.

Surveying

This thoroughly revised Second Edition presents a comprehensive account of the principles of operation and design of wastewater treatment plants. Beginning with the basic concepts of treatment of wastewater and the design considerations required of an efficient treatment plant, the book moves on to spotlight the design criteria for domestic wastewater treatment units. In essence, the text gives the detailed procedures for design computations of all units of a wastewater treatment plant. It also describes the most common types of reactors used for physical operations and biological processes in wastewater treatment plants. Besides additional examples and exercises, this edition also includes a new chapter on “Disinfection of Wastewater”. The book is intended for the undergraduate students of Civil and Environmental Engineering. It will also be useful to the practising professionals involved in the design of wastewater treatment plants. Key Features • Provides several examples supported by graphs and sketches to highlight the various design concepts of wastewater treatment units. • Encapsulates

significant theoretical and computational information, and useful design hints in Note and Tip boxes. • Includes well-graded practice exercises to help students develop the skills in designing treatment plants.

Handbook of Engineering Hydrology

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.

Environmental Studies

This book covers the fundamentals of environmental engineering and applications in water quality, air quality, and hazardous waste management. It begins by describing the fundamental principles that serve as the foundation of the entire field of environmental engineering. Readers are then systematically reintroduced to these fundamentals in a manner that is tailored to the needs of environmental engineers, and that is not too closely tied to any specific application.

Solid Waste Management and Safe Drinking Water in Context of Mizoram and Other States in India

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 appli-cations 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.

Theory And Problems In Structural Analysis (tmh Outline Series)

Design Of Steel Structure 3E

Water is the most essential commodity for human consumption and one of the most important renewable resources, which must be prevented from deterioration in quality and quantity both. With rapid growing population and improved living standards, the pressure on water resources is increasing. Exploitation of water from the resources for domestic, industrial and agricultural purposes puts resources. Pollution of surface and subsurface water resources poses a serious threat to human health and environment. The surface water sources are largely influenced by anthropogenic activities. As most surface water sources are already polluted by rapid urbanization and industrialization, its adverse effects on shallow subsurface groundwater aquifers are a cause of concern as large population is depending on it. The chemical composition of groundwater is related to the soluble products of rock weathering and

decomposition and changes with respect to time and space. Some elements are essential in trace amounts for human consumption while higher concentrations of the same can cause toxic effects. Water quality depends on local geology, distance from sea, industrial zone, agricultural area and urbanization.

Environmental Pollution Control Engineering

Irrigation Engineering

The GPS Signal - Biases and Solutions - The Framework - Receivers and Methods - Coordinates - Planning a Survey - Observing - Postprocessing - RTK and DGPS.

Basic Civil Engineering

The book is the outcome of Author's experience gained while dealing with the Manifold aspects of the topics covered both in the teaching as well as in the practical fields.

Engineering Hydrology

Earthquake-resistant Design of Structures 2e is designed for undergraduate students of civil engineering.

Advances in Bioremediation and

Phytoremediation

This book contains more than 1400 multiple choice questions covering various environment-related topics, such as ecology and environment, biodiversity, natural resources, eco-marketing, environmental finance, air pollution, and water pollution. The first chapter is a comprehensive introduction to environmental studies. The book will prove beneficial for academicians, students pursuing courses on environmental studies, professionals, aspirants of various competitive exams, and stakeholders in the environment sector. It can also be handy for various quiz programmes.

TEXTBOOK OF ENVIRONMENTAL ENGINEERING

Limit State Design of Steel Structures

Environmental Engineering Science

Environmental chemistry is an increasingly popular option on many chemistry courses, is a degree subject in its own right at some institutions, and is a key part of many environmental, earth and life science courses. Environmental Chemistry at a Glance illustrates both the operation of chemical processes in the environment and their integration with physical and biological processes. While the emphasis is on environmental chemical processes, the material in the

book is placed in the wider context of the physical and biological sciences, giving an integrated approach to the environment from a chemist's point of view and providing background information in these other disciplines for the environmental chemist. Based on the highly successful and student friendly "at a glance" approach, the information is presented in integrated, self contained double page spreads of text and illustrative material, to facilitate the rapid assimilation, understanding and recall of critical concepts, facts and definitions. Students wanting a comprehensive and accessible overview of environmental chemistry will find this book an ideal source of the information they require. In addition, the structured presentation will provide an invaluable aid to revision for students preparing for examinations.

Basic Environmental Engineering and Elementary Biology (WBUT)

Environmental Science & Engineering

The pollution of soil and groundwater by harmful chemical compounds and heavy metals is becoming very serious in many countries. Although remediation is necessary as soon as possible, the performance of conventional bioremediation processes is not sufficient. This book deals with advances in bioremediation and phytoremediation processes by using excellent strains and a combination of processes. In the chapters of this book, the researchers have introduced the overall status of

contamination; the characteristics of bioremediation using halobacteria, Candida yeast, and autochthonous bacteria; and phytoremediation using macrophytes. Moreover, other researchers introduced a process using biochar and electric currents, and this combination of processes and phytoremediation enhances the overall process.

Waste Water Engineering

WASTEWATER TREATMENT

This book is intended to meet the academic requirements of the subject 'Environmental Studies' for undergraduate students in Indian and overseas universities. The contents have been prepared keeping in mind the widest possible variations in the background of the users.The entire UGC syllabus and supplementary materials are in the nine chapters. Chapter 1 describes the multidisciplinary nature of environmental studies. Chapter 2 and 3 comprehensively elaborate the forest, water, minerals, food, energy and land resources. Chapter 4 explains various aspects of biodiversity. Chapter 5 discusses the science of ecology and concepts of ecosystem. Chapter 6 is an exhaustive description of environmental pollution, its sources, effects and control measures. The sustainable development has been discussed in Chapter 7. Issues on environment and health, human rights, AIDS, women & child welfare and role of IT industry have been addressed in great length in Chapter 8.Key features of this book

include authentic, simple to the point and latest account of each and every topic besides well sketched illustrations and various case studies. The book also contains glossary of terms which can be of particular use to students with little or no science background, and appendices and abbreviations commonly used in describing environmental studies

Water Supply Engineering

Theory of Structures

The Book Has Been Designed To Cover All Relevant Topics In B.E. (Mechanical/Metallurgy / Material Science / Production Engineering), M.Sc. (Material Science), B.Sc. (Honours), M.Sc. (Physics), M.Sc. (Chemistry), Amie And Diploma Students. Students Appearing For Gate, Upsc, Net, Slet And Other Entrance Examinations Will Also Find Book Quite Useful.In Nineteen Chapters, The Book Deals With Atomic Structure, The Structure Of Solids; Crystal Defects; Chemical Bonding; Diffusion In Solids; Mechanical Properties And Tests Of Materials; Alloys, Phase Diagrams And Phase Transformations; Heat Treatment; Deformation Of Materials; Oxidation And Corrosion; Electric, Magnetic, Thermal And Optical Properties; Semiconductors; Superconductivity; Organic Materials; Composites; And Nanostructured Materials.Special Features: * Fundamental Principles And Applications Are Discussed With Explanatory Diagrams In A Clear Way. * A Full Coverage Of Background Topics With Latest Development Is

Provided. * Special Chapters On Nanostructured Materials, Superconductivity, Semiconductors, Polymers, Composites, Organic Materials Are Given . * Solved Problems, Review Questions, Problems, Short-Question Answers And Typical Objective Type Questions Alongwith Suggested Readings Are Given With Each Chapter.

Environmental Engineering

Geotechnical Engineering: Principles and Practices, 2/e, is ideal or junior-level soil mechanics or introductory geotechnical engineering courses. This introductory geotechnical engineering textbook explores both the principles of soil mechanics and their application to engineering practice. It offers a rigorous, yet accessible and easy-to-read approach, as well as technical depth and an emphasis on understanding the physical basis for soil behavior. The second edition has been revised to include updated content and many new problems and exercises, as well as to reflect feedback from reviewers and the authors' own experiences.

International Books in Print

Intro To Enviromental Sci & Engg

This text explains what constitutes good practice in applying environmental assessment as an environmental management tool. A wide range of case studies and other student text features are

employed to demonstrate how the different methods, techniques and disciplines of environmental assessment can be used. The authors address the key concepts for environmental assessment procedures: methods for using E.A.; techniques for impact prediction and evaluation; environmental risk assessment; EA consultation and participation; project management; environmental statement review and post-project analysis; and strategic environmental assessment. Worldwide case studies include: gas pipelines, hydroelectric power plants, gold mining, river crossings, waste-to-energy plants and gravel extraction in England, Scotland, Ireland, Canada, the USA, Venezuela, the Netherlands, Iceland, Zambia, Zimbabwe, South Africa and Ghana.

Elements of Water Resources Engineering

The book 'Basic Environmental Engineering and Elementary Biology' has been written for the engineering students. It starts with basic concepts of ecology and concerns on environment. It then discusses how the spiraling rate of population growth and the requirements of human beings have led to large-scale deforestation, depletion of the ozone layer, creation of greenhouse effect, acid rain, smog and environmental pollution. The book equips students to manage environment-related issues by showing how technology can be used to control these problems. This well thought-out book on one of the most talked about issues today, can serve as a ground for future environmentalists. It can also be a

highly useful reference work for those interested in working towards a better and cleaner environment. Fundamental aspects of environment principles have been explained in great detail, which can be used to manage environment and restore nature's balance.

Material Science

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.

Earthquake Resistant Design of Structures

This Book Presents A Systematic Exposition Of The Basic Principles And Applications Of Commonly Used Building Materials. Both Fabrication And Application Aspects Are Suitably Discussed.The Book Highlights * Mechanical And Physical Properties Of Various Materials. * Influence Of Various Factors On These Properties. * Causes Of Defects, Their Prevention And Remedies. * Testing Of MaterialsThis Edition Includes * A Comprehensive Chapter On Concrete Mix Design. * Updated Treatment Of Several Materials Including Lime, Cement And Concrete. * Introduction Of Geotextiles And New Types Of Cement And Concrete. * Numerous Objectives And Review Questions.S.I. Units And The Standards Prescribed By Bis Have Been Followed Throughout The Book.The Book Would Serve As A Thorough Text For Undergraduate Students Of Civil Engineering, Architecture And Construction

Technology. Practising Engineers, Architects And Contractors Would Also Find It A Valuable Reference Source.

Building Materials

While most books examine only the classical aspects of hydrology, this three-volume set covers multiple aspects of hydrology. 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. The chapters in this book contain information on: Climate change and hydrological hazards, hydrological modeling, and urban water systems, as well as climate change impacts on hydrology and water resources, climate change uncertainty, vulnerability, and adaption Rainfall estimation and changes, hydrological changes of mangrove ecosystems, impact of the development of vegetation on flow conditions and flood hazards, urbanization impacts on runoff regime, and discretization in urban watersheds Artificial neural network-based modeling of hydrologic processes, flow and sediment transport modeling in rivers, hybrid hydrological modeling, hydrologic modeling: stochastic processes, and time series analysis of

hydrologic data Dam risk and uncertainty, drought indices for drought risk assessment in a changing climate, hydrologic prediction and uncertainty quantification, uncertainty and risk of the PMP and PMF Geostatistics applications in hydrology, GIS applications in a changing climate, GIS-based upland erosion mapping, regional flood frequency analysis, regionalization of hydrological extreme events, remote sensing data and information for hydrological monitoring and modeling Application of copulas in hydrology, bankfull frequency of rivers, statistical parameters used for assessing hydrological regime, significance of statistical tests and persistence in hydrologic processes Students, practitioners, policy makers, consultants and researchers can benefit from the use of this text.

Transportation Engineering and Planning

Interdisciplinary introduction to transportation engineering serving as a comprehensive text as well as a frequently cited reference for a course in transportation engineering in the Civil Engineering Department.

Surveying

Basic And Applied Soil Mechanics Is Intended For Use As An Up-To-Date Text For The Two-Course Sequence Of Soil Mechanics And Foundation Engineering Offered To Undergraduate Civil Engineering Students. It Provides A Modern Coverage Of The Engineering Properties Of Soils And Makes Extensive Reference To

The Indian Standard Codes Of Practice While Discussing Practices In Foundation Engineering. Some Topics Of Special Interest, Like The Schmertmann Procedure For Extrapolation Of Field Compressibility, Determination Of Secondary Compression, Lambes Stress - Path Concept, Pressure Meter Testing And Foundation Practices On Expansive Soils Including Certain Widespread Myths, Find A Place In The Text.The Book Includes Over 160 Fully Solved Examples, Which Are Designed To Illustrate The Application Of The Principles Of Soil Mechanics In Practical Situations. Extensive Use Of Si Units, Side By Side With Other Mixed Units, Makes It Easy For The Students As Well As Professionals Who Are Less Conversant With The Si Units, Gain Familiarity With This System Of International Usage. Inclusion Of About 160 Short-Answer Questions And Over 400 Objective Questions In The Question Bank Makes The Book Useful For Engineering Students As Well As For Those Preparing For Gate, Upsc And Other Qualifying Examinations.In Addition To Serving The Needs Of The Civil Engineering Students, The Book Will Serve As A Handy Reference For The Practising Engineers As Well.

Environmental Engineering

Elements of Environmental Engineering

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION