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# **Environment Engineering By Duggal**

***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***

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***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***

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***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 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***

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***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. This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2018). The book presents results of experimental investigations into the latest topics related to energy and built environment.***

***The topics covered include green and clean technologies, zero energy buildings, solar energy, energy conservation and heat recovery, and solar architecture. The contents of this book will be beneficial to students, researchers and professionals working in the area of energy and built environment engineering.***

***This comprehensive textbook highlights the fundamental concepts and design principles related to water and wastewater engineering. Problems and issues arising from the lack of sustainable conventional treatment practices and potential methods for resolving problems***

***are discussed in detail. The book starts with an introduction to water resources and the need for water and wastewater treatment, followed by evaluation of water demand in terms of quantity and quality. Mass transfer and transformation processes that are necessary for understanding the complexity of water pollution issues and treatment processes are discussed in detail.***

***Pedagogical features include learning objectives, chapter-wise study outlines, detailed solutions to important problems and self-evaluation exercises with answers. Case studies for specific water treatment requirements are provided to***

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***enable the students to choose and apply only relevant treatment processes in their design.***

***Next Generation Project***

***Management and PMO***

***Environmental Studies***

***Paediatric Dentistry***

***Fundamentals of Structural***

***Analysis, 2nd Edition***

***Water and Wastewater***

***Engineering***

Advancing the Human Right to Health offers a prospective on the global response to one of the greatest moral, legal, and public health challenges of the 21st century - achieving the human right to health as enshrined in the Universal



Declaration of Human Rights (UDHR) and other legal instruments. Featuring writings by global thought-leaders in the world of health human rights, the book brings clarity to many of the complex clinical, ethical, economic, legal, and socio-cultural questions raised by injury, disease, and deeper determinants of health, such as poverty. Much more than a primer on the right to health, this book features an examination of profound inequalities in health, which have resulted in millions of people condemned to unnecessary suffering and hastened deaths. In so doing, it provides a thoughtful account of the right to health's parameters,

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strategies on ways in which to achieve it, and discussion of why it is so essential in a 21st century context. Country-specific case studies provide context for analysing the right to health and assessing whether, and to what extent, this right has influenced critical decision-making that makes a difference in people's lives. Thematic chapters also look at the specific challenges involved in translating the right to health into action. Advancing the Human Right to Health highlights the urgency to build upon the progress made in securing the right to health for all, offering a timely reminder that all stakeholders must redouble their efforts to advance the

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human right to health.

Green Sustainable Process for Chemical and Environmental Engineering and Science: Solid State Synthetic Methods cover recent advances made in the field of solid-state materials synthesis and its various applications. The book provides a brief introduction to the topic and the fundamental principles governing the various methods. Sustainable techniques and green processes development in solid-state chemistry are also highlighted. This book also provides a comprehensive literature on the industrial application using solid-state materials and solid-state devices. Overall, this book is intended to

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explore green solid-state techniques, eco-friendly materials involved in organic synthesis and real-time applications. Provides a broad overview of solid-state chemistry  
Outlines an eco-friendly solid-state synthesis of modern nanomaterials, organometallic, coordination compounds and pure organic Gives a detailed account of solid-state chemistry, fundamentals, concepts, techniques and applications  
Deliberates cutting-edge recent advances in industrial technologies involved in energy, environmental, medicinal and organic chemistry fields

A banner edition of the prominent reference covering environmental

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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

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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

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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.

Basic Civil Engineering is designed to enrich the preliminary conceptual knowledge about civil engineering to the students of non-civil branches of engineering. The coverage includes materials for construction, building construction, basic surveying and other major topics like environmental engineering, geo-

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technical engineering, transport traffic and urban engineering, irrigation & water supply engineering and CAD.

A Textbook Of Water Power Engineering

Introduction to Environmental Engineering and Science

Advances in Bioremediation and Phytoremediation

Irrigation and Water Resources Engineering

Sustainable Solutions for Railways and Transportation Engineering

This text on building materials includes

discussion of structural clay products, rocks and stones, wood, materials for



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making concrete, ferrous and non-ferrous metals, and miscellaneous materials.

Paediatric Dentistry, Fourth Edition successfully combines both the theoretical and practical aspects of paediatric dentistry for the child up to age 16, from all dental specialities and is illustrated throughout.

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

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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. The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management,

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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:

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- 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

Elements of Water Resources Engineering

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Practical Civil Engineering

Elements of Environmental

Engineering

Advances in Energy and Built

Environment

Basic Civil Engineering

This book will cater to the needs of

students who want to pursue a

Diploma in Engineering, Degree in

Engineering (B.Tech/B.E.,

B.Sc.(Engg.) students.

Postgraduate degree in

Engineering (M. Tech, M.E.)

students. AMIE (Associate

membership of Indian Institute of

Metals) examination. AMIChE

(Associate Membership of Indian

Institute of Chemical Engineers)

examination. AIC (Associateship of

Institute of Chemist) examination.

Practicing engineers in the field of

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environmental engineering.

Environmental engineering professionals.

Ecological Significance of Riparian Ecosystems: Challenges and Management Strategies examines the current issues related to river ecosystems, their environmental importance, pollution issues and potential management strategies.

The book is divided into 4 key themes: Basics of river ecosystem, Natural phenomenon of river ecosystem, Human-induced problems of river ecosystem, and Management measures for the river ecosystem. Through these four themes, the contributors present both practical and theoretical aspects of river ecosystem in

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changing climate. An emphasis has been made on the recent research of climate change and its impact on the river ecosystem. River ecosystems have tremendous potential to store CO<sub>2</sub>, however, with changing climatic and anthropogenic activities, these habitats are under threat, and river ecosystems are losing the very vital service of storing carbon. Unlike well documented terrestrial biodiversity, the biodiversity in aquatic ecosystems is still unrecognized to some extent. Presents an understanding of the biogeochemical processes of river ecosystems achieved by food webs and diverse biogeochemical processes Covers sediment

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dynamics and nutrient chemistry - hot topics in river ecosystems  
Includes environmental pollution issues in river ecosystems from various anthropogenic activities  
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



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examples and problems.

This volume brings together scientific experts in different areas that contribute to the railway track and transportation engineering challenges, evaluate the state-of-the-art, identify the shortcomings and opportunities for research and promote the interaction with the industry. In particular, scientific topics that are addressed in this volume include railway ballasted track degradation/settlement problems and stabilization/reinforcement technologies, switches and crossings and related derailments causes, train-induced vibrations and mitigation measures, operations, management and

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performance of ground transportation, and traffic congestion and safety procedures.

The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 - The official international congress of the Soil-Structure Interaction Group in Egypt (SSIGE).

Mooring System Engineering for Offshore Structures

Waste Water Engineering

Environmental Engineering

Dictionary and Directory

Environmental Engineering for the 21st Century

Challenges and Management Strategies

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**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

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**pollution control.**

**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**

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**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.**

**Including Dams Engineering, Hydrology and Fluid Power Engineering. For the student of B.E./B.Tech. Civil Engg., Institution of Engineers (India)**

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**U.P.S.C. Exam &**

**Practising Engineers.**

**THE DNA OF STRATEGY**

**EXECUTION “In a world**

**where there are more**

**questions than answers**

**every leader will need**

**to learn to dance to a**

**different beat. In this**

**insightful book, Jack**

**Duggal has cracked the**

**DNA of Strategy**

**Execution. Ignore these**

**insights at your own**

**peril.” – Dr. Tony**

**O’Driscoll Global Head,**

**DukeCE Labs, Duke**

**Corporate Education**

**Fuqua School of**



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**Business, Duke**

**University DECODE THE**

**DNA OF MANAGEMENT AND**

**STRATEGY EXECUTION IN AN**

**INCREASINGLY TURBULENT**

**WORLD Just as DNA**

**contains the genetic**

**instructions used in the**

**development and**

**functioning of all**

**living organisms, what**

**if we could decode the**

**elements of management**

**and strategy execution?**

**This insightful book**

**offers new perspectives**

**on age-old management**

**challenges and**

**illuminates better ways**

**to organize and manage in an increasingly DANCE-world (Dynamic. Ambiguous. Non-Linear. Complex. Emergent). It puts the management DNA under the microscope, and shows how to develop, build and transform organizational project management and PMO capabilities essential for effective strategy execution. It provides a framework to measure what matters with a step-by-step approach to define and measure success and**

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**business value. The DNA of Strategy Execution: Next Generation Project Management and PMO provides innovative insights for organizational project management and PMO. Based on application and learnings from many organizations around the world, this book reveals a playbook for strategy execution that will help you: Decode the core elements of management and strategy execution DNA Design and build next-generation**

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**Project/Program**

**Management and PMO**

**platform essential for**

**effective strategy**

**execution Prepare your**

**organization to**

**effectively lead and**

**implement agile**

**transformation and**

**organizational change**

**Improve organizational**

**project management (OPM)**

**and PMO maturity Improve**

**overall organizational**

**effectiveness and**

**innovation capabilities**

**Whether you are a part**

**of a startup, or an**

**established incumbent**

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**organization, the impact of digitization and disruption requires a rethink and reset of how we organize and manage.**

**This book presents a playbook for effective strategy execution with next-generation Project, Program and PMO capabilities.**

**Elements of Environmental Pollution Control**

**Thermodynamics and Kinetics, Second Edition  
Solid State Synthetic Methods**

**Earthquake Resistant**

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## **Design of Structures**

### **A Textbook of**

### **Transportation**

### **Engineering**

*Now revised and updated, the second edition of this book includes new topics including a look at pollution prevention, drinking water standards, volatile organic compounds, indoor air quality and emissions monitoring.*

*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*

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*practical fields.*

*For Civil Engineering*

*Students of All Indian*

*Universities and Practicing*

*Engineers*

*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.*



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*Proceedings of EGRWSE*

*2019*

*Standard Handbook of*

*Environmental Engineering*

*Green Sustainable Process*

*for Chemical and*

*Environmental Engineering*

*and Science*

*Solid Waste Management*

*and Safe Drinking Water in*

*Context of Mizoram and*

*Other States in India*

***The mooring system is a vital component of various floating facilities in the oil, gas, and renewables industries. However, there is a lack of comprehensive technical books dedicated to***

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***the subject. Mooring System Engineering for Offshore Structures is the first book delivering in-depth knowledge on all aspects of mooring systems, from design and analysis to installation, operation, maintenance and integrity management. The book gives beginners a solid look at the fundamentals involved during mooring designs with coverage on current standards and codes, mooring analysis and theories behind the analysis techniques. Advanced engineers can stay up-to-date through operation, integrity management, and practical examples provided. This book***

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*is recommended for students majoring in naval architecture, marine or ocean engineering, and allied disciplines in civil or mechanical engineering. Engineers and researchers in the offshore industry will benefit from the knowledge presented to understand the various types of mooring systems, their design, analysis, and operations. Understand the various types of mooring systems and the theories behind mooring analysis Gain practical experience and lessons learned from worldwide case studies Combine engineering fundamentals with practical applications to solve*

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*today's offshore challenges  
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.  
Environmental engineers  
support the well-being of  
people and the planet in  
areas where the two  
intersect. Over the decades  
the field has improved  
countless lives through*

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*innovative systems for delivering water, treating waste, and preventing and remediating pollution in air, water, and soil. These achievements are a testament to the multidisciplinary, pragmatic, systems-oriented approach that characterizes environmental engineering. Environmental Engineering for the 21st Century: Addressing Grand Challenges outlines the crucial role for environmental engineers in this period of dramatic growth and change. The report identifies five pressing challenges of the 21st century that environmental engineers are uniquely poised to help*

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***advance: sustainably supply food, water, and energy; curb climate change and adapt to its impacts; design a future without pollution and waste; create efficient, healthy, resilient cities; and foster informed decisions and actions.***

***Primarily intended as a text for undergraduate students of engineering for their core course in environmental studies, this book gives a clear introduction to the fundamental principles of ecology and environmental science and aptly summarizes the relationship between ecology and environmental engineering. Divided into three parts, the book begins***

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*by discussing the biosphere, natural resources, ecosystems, biodiversity, and community health. Then it goes on to give detailed description on topics such as pollution and control, environmental management, and sustainable development. Finally, it focuses on environmental chemistry, environmental microbiology, and monitoring and analysis of pollutants.*

*Sustainable Environment and Infrastructure*

*PRINCIPLES OF ENVIRONMENTAL SCIENCE AND ENGINEERING*

*Ecological Significance of River Ecosystems*

*Structures engineering and geotechnical infrastructure*

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***development***

***Environmental Engineering & Management***

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

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



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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

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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

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Resources Engineering.

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

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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.

This book is highly useful for the students of B.E./B.Tech. of Punjab Technological University, Jalandhar and also for the other Technological

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Universities of India as per New Syllabus.

Accordingly, few sample question are given at the end of each chapter. The chapter and topics, covered in this book, are expected to encompass the syllabus that may be needed by various colleges/ institutions in maintenance field. It also serves as a reference book for students of all other engineering disciplines in universities, colleges, institutions and also vast numbers of engineer, managers supervisors, technologists and other

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persons working in or associated with maintenance and upkeep of machines, equipments and systems in any shop, plant or industry.

Maintenance Engineering  
(Principles, Practices and Management)

Solid Waste Engineering  
and Management

Volume 1

Water Supply Engineering  
Select Proceedings of  
TRACE 2018

***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***

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***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***

***Elements of  
Environmental***

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**Engineering S. Chand**

**Publishing**

**Completely revised and**

**updated, Elements of**

**Environmental**

**Engineering:**

**Thermodynamics and**

**Kinetics, Second Edition**

**covers the applications of**

**chemical thermodynamics**

**and kinetics in**

**environmental processes.**

**Each chapter has been**

**rewritten and includes**

**new examples that better**

**illuminate the theories**

**discussed. An excellent**

**introduction to**

**environmental**

***engineering, this reference stands alone in its multimedia approach to fate and transport modeling and in pollution control design options. Clearly and lucidly written, it provides extensive tables, figures, and data that make it the reference to have on this subject.***

***TEXTBOOK OF  
ENVIRONMENTAL  
ENGINEERING  
Environmental  
Engineering  
Advancing the Human  
Right to Health***

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***The DNA of Strategy***

***Execution***

***Proceedings of the 2nd***

***GeoMEast International***

***Congress and Exhibition***

***on Sustainable Civil***

***Infrastructures, Egypt***

***2018 - The Official***

***International Congress of***

***the Soil-Structure***

***Interaction Group in***

***Egypt (SSIGE)***