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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 pollution control.

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

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 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 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.

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.

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

This book, from noted materials selection authority Mike Ashby, provides a structure and framework for analyzing sustainable development and the role of materials in it. The aim is to introduce ways of exploring sustainable development to readers in a way that avoids simplistic interpretations and approaches complexity in a systematic way. There is no completely "right" answer to questions of sustainable development - instead, there is a thoughtful, well-researched response that recognizes concerns of stakeholders, the conflicting priorities and the economic, legal and social aspects of a technology as well as its environmental legacy. The intent is not to offer solutions to sustainability challenges but rather to improve the quality of discussion and enable informed, balanced debate. Winner of a 2016 Most Promising New Textbook Award from the Textbook and Academic Authors Association Describes sustainable development in increasingly detailed progression, from a broad overview to specific tools and methods Six chapter length case studies on such topics as biopolymers, electric cars, bamboo, and lighting vividly illustrate the sustainable development process from a materials perspective Business and economic aspects are covered in chapters on corporate sustainability and the "circular materials economy" Support for course use includes online solutions manual and image bank

Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to reinforce important concepts. Additional end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers.

Community & Public Health Nursing is designed to provide students a basic grounding in public health nursing principles while emphasizing aggregate-level nursing. While weaving in meaningful examples from practice throughout the text, the authors coach students on how to navigate between

conceptualizing about a population-focus while also continuing to advocate and care for individuals, families, and aggregates. This student-friendly, highly illustrated text engages students, and by doing so, eases students into readily applying public health principles along with evidence-based practice, nursing science, and skills that promote health, prevent disease, as well as protect at-risk populations! What the 8th edition of this text does best is assist students in broadening the base of their knowledge and skills that they can employ in both the community and acute care settings, while the newly enhanced ancillary resources offers interactive tools that allow students of all learning styles to master public health nursing.

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.

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.

Complex environmental problems are often reduced to an inappropriate level of simplicity. While this book does not seek to present a comprehensive scientific and technical coverage of all aspects of the subject matter, it makes the issues, ideas, and language of environmental engineering accessible and understandable to the nontechnical reader. Improvements introduced in the fourth edition include a complete rewrite of the chapters dealing with risk assessment and ethics, the introduction of new theories of radiation damage, inclusion of environmental disasters like Chernobyl and Bhopal, and general updating of all the content, specifically that on radioactive waste. Since this book was first published in 1972, several generations of students have become environmentally aware and conscious of their responsibilities to the planet earth. Many of these environmental pioneers are now teaching in colleges and universities, and have in their classes students with the same sense of dedication and resolve that they themselves brought to the discipline. In those days, it was sometimes difficult to explain what indeed environmental science or engineering was, and why the development of these fields was so important to the future of the earth and to human civilization. Today there is no question that the human species has the capability of destroying its collective home, and that we have indeed taken major steps toward doing exactly that. And yet, while, a lot has changed in a generation, much has not. We still have air pollution; we still contaminate our water supplies; we still dispose of hazardous materials improperly; we still destroy natural habitats as if no other species mattered. And worst of all, we still continue to populate the earth at an alarming rate. There is still a need for this book, and for the college and university courses that use it as a text, and perhaps this need is more acute now than it was several decades ago. Although the battle to preserve the environment is still raging, some of the rules have changed. We now must take into account risk to humans, and be able to manipulate concepts of risk management. With increasing population, and fewer alternatives to waste disposal, this problem is intensified. Environmental laws have changed, and will no doubt continue to evolve. Attitudes toward the environment are often couched in what has become known as the environmental ethic. Finally, the environmental movement has become powerful politically, and environmentalism can be made to serve a political agenda. In revising this book, we have attempted to incorporate the evolving nature of environmental sciences and engineering by adding chapters as necessary and eliminating material that is less germane to today's students. We have nevertheless maintained the essential feature of this book -- to package the more important aspects of environmental engineering science and technology in an organized manner and

present this mainly technical material to a nonengineering audience. This book has been used as a text in courses which require no prerequisites, although a high school knowledge of chemistry is important. A knowledge of college level algebra is also useful, but calculus is not required for the understanding of the technical and scientific concepts. We do not intend for this book to be scientifically and technically complete. In fact, many complex environmental problems have been simplified to the threshold of pain for many engineers and scientists. Our objective, however, is not to impress nontechnical students with the rigors and complexities of pollution control technology but rather to make some of the language and ideas of environmental engineering and science more understandable.

Civil Engineering Materials explains why construction materials behave the way they do. It covers the construction materials content for undergraduate courses in civil engineering and related subjects and serves as a valuable reference for professionals working in the construction industry. The book concentrates on demonstrating methods to obtain, analyse and use information rather than focusing on presenting large amounts of data. Beginning with basic properties of materials, it moves on to more complex areas such as the theory of concrete durability and corrosion of steel. Discusses the broad scope of traditional, emerging, and non-structural materials Explains what material properties such as specific heat, thermal conductivity and electrical resistivity are and how they can be used to calculate the performance of construction materials. Contains numerous worked examples with detailed solutions that provide precise references to the relevant equations in the text. Includes a detailed section on how to write reports as well as a full section on how to use and interpret publications, giving students and early career professionals valuable practical guidance.

Details the design and process of water supply systems, tracing the progression from source to sink Organized and logical flow, tracing the connections in the water-supply system from the water's source to its eventual use Emphasized coverage of water supply infrastructure and the design of water treatment processes Inclusion of fundamentals and practical examples so as to connect theory with the realities of design Provision of useful reference for practicing engineers who require a more in-depth coverage, higher level students studying drinking water systems as well as students in preparation for the FE/PE examinations Inclusion of examples and homework questions in both SI and US units

The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon.

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

Advances in Civil Engineering and Building Materials presents the state-of-the-art development in: - Structural Engineering - Road & Bridge Engineering- Geotechnical Engineering- Architecture & Urban Planning- Transportation Engineering- Hydraulic Engineering - Engineering Management- Computational Mechanics- Construction Technology- Buildi

Air pollution has become part of the daily existence of many people who work, live and use the streets in Asian cities. Each day millions of city dwellers breathe air polluted with concentrations of chemicals, smoke and particles that dramatically exceed World Health Organization guideline values. Deteriorating air quality has resulted in significant impacts on human health and environment in Asia. This book provides a comprehensive and comparative assessment of the current status and challenges in urban air pollution management in 20 cities in the Asian region. It examines the effects on human health and the environment and future implications for planning, transport and energy sectors. National and local governments have begun to develop air quality management strategies to address the deterioration in urban air quality; however, the scope and effectiveness of such strategies vary widely. This book benchmarks these air quality management strategies, examines successes and failures in these cities and presents strategies for improving air quality management in cities across Asia and the rest of our rapidly urbanizing world. Information on air quality in Asia is clearly presented with easy-to-read city profiles, tables and graphs. This is an essential resource for all those concerned with urban air quality management, not just in Asia but in cities across our rapidly urbanizing world. Cities covered Bangkok, Beijing, Busan, Colombo, Dhaka, Hanoi, Ho Chi Minh City, Hong Kong, Jakarta, Kathmandu, Kolkata, Metro Manila, Mumbai, New Delhi, Seoul, Shanghai, Singapore, Surabaya, Taipei and Tokyo

Environmental Studies pertain to a systematic analysis of the natural and man-made world encompassing various scientific, economic, social and ethical aspects. Human impacts leading to large scale degradation of the environment have aroused global concern on environmental issues in the recent years. The apex court has hence, issued directive to impart environmental literacy to all. In this book the fundamental concepts of environmental studies have been introduced and analysed in a simple manner strictly as per the module syllabus designed by the U.G.C. for undergraduate courses in science, humanities, engineering, medicine, pharmacy, commerce, management and law. Besides the undergraduate students of all disciplines the book will also be useful for those appearing in various competitive exams since environmental issues now find a focus in most of such examinations. The contents of the book will be of interest to all educationists, planners and policy makers. Key features of the book include a simple and holistic approach with illustrations, tables and specific case studies mainly in the Indian context. The basic terminologies have been defined in the text while introducing the topics and some useful terms mentioned in the text have been explained in the glossary for an easy grasp by students of all disciplines.

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 straightforward overview of the fundamentals of steel structure design This hands-on structural engineering guide provides concise, easy-to-understand explanations of the design and behavior of steel columns, beams, members, and connections. Ideal for preparing you for the field, Design of Steel Structures includes real-world examples that demonstrate practical applications of AISC 360 specifications. You will get an introduction to more advanced topics, including connections, composite members, plate girders, and torsion. This textbook also includes access to companion online videos that help connect theory to practice. Coverage includes: Structural systems and elements Design considerations Tension members Design of columns AISC design requirements Design of beams Torsion Stress analysis and design considerations Beam-columns Connections Plate girders Intermediate transverse and bearing stiffeners

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.

This contains selected and peer-reviewed papers from the 4th Annual International Conference on Material Science and Environmental Engineering (M-SEE), December 16-18 2016, in Chengdu, China. Interactions of building materials, biomaterials, energy materials and nanomaterials with surrounding environment are discussed. With abundant case studies, it is of interests to material scientists and environmental engineers.

Taking the reader through the history of industrial waste treatment and directing them toward a new path of best practice, Industrial Waste Treatment illustrates how current treatment techniques are affected by regulatory and economic constraints, scientific knowledge and tolerances. This book provides the reader with the basis for a more effective method of waste treatment which is sustainable and supportive of industrial improvements. Overall, it provides valuable information for planners, industrial, civil and environmental engineers and government officials for a better understanding of current practices and regulatory history and how these factors relate to the ability to complete environmental solutions to industrial waste problems. Provides environmental history from a professional/technical point-of-view as a basis for total solutions engineering Includes sustainable practice necessary for the 21st Century Thoroughly explores industry and environmental regulations over the past 150 years

This open access book offers a timely guide to challenges and current practices to permanently plug and abandon hydrocarbon wells. With a focus on offshore North Sea, it analyzes the process of plug and abandonment of hydrocarbon wells through the establishment of permanent well barriers. It provides the reader with extensive knowledge on the type of barriers, their functioning and verification. It then discusses plug and abandonment methodologies, analyzing different types of permanent plugging materials. Last, it describes some tests for verifying the integrity and functionality of installed permanent barriers. The book offers a comprehensive reference guide to well plugging and abandonment (P & A) and well integrity testing. The book also presents new technologies that have been proposed to be used in plugging and abandoning of wells, which might be game-changing technologies, but they are still in laboratory or testing level. Given its scope, it addresses students and researchers in both academia and industry. It also provides information for engineers who work in petroleum industry and should be familiarized with P & A of hydrocarbon wells to reduce the time of P & A by considering it during well planning and construction.

"... an important intervention in the conversation around social and ecological sustainability that draws on both micromarketing and macromarketing scholarship to help the reader understand the challenges with illustrations from insightful cases both from emerging and developed economies. This compilation should be essential reading for the discerning student of sustainable consumption and production." -- Professor Pierre McDonagh, Associate Editor, Journal of Macromarketing (USA); Professor of Critical Marketing & Society, University of Bath, UK Experts in the field of economics, management science, and particularly in the marketing domain have always been interested in and acknowledged the importance of sustaining profitable businesses while incorporating societal and environmental concerns; however, the level of existing literature and availability of teaching cases reflect a dearth of real case studies, especially those focused on marketing for social good. This book of actual case studies will address that need. In addition, this book is important and timely in providing a case book for instructors (those in both industry and academia) to help them in teaching and training the next generation of leaders through corporate training and universities. Currently, marketing for social good is increasingly becoming a part of most curriculums under the umbrella of different titles, such as social marketing, green marketing, and sustainability marketing. The relevance of these studies is increasing across the globe. This book is composed of long and short real cases with varying complexity in different sectors. This case book will also cover some review articles for an overview of the recent developments in the study area. With these case studies, collections of questions, teaching materials, and real-life marketing scenarios, this book offers a unique source of knowledge to marketing professionals, students, and educators across the world. The main objective of this case book is to understand the applicability of marketing science (marketing for social good context, such as social marketing and sustainability marketing) in internet marketing related to e-buying behavior and e-WOM. In addition, it illustrates the various types of existing marketing practices that are relevant from both theoretical and practical points of view in this electronic era, as well as discussing other non-electronic marketing practices and focusing on consumer buying behavior. As a result, marketing managers can treat their customers according to their desired value. This book particularly explores the possibilities and advantages created by social marketing and sustainability marketing through the presentation of thorough review articles and case studies. This case book helps corporate training centers and universities with compact teaching reference materials in their relevant courses.

Improve the Quality of Concrete, Improve the Quality of Construction Quality measurement is not prevalent in the concrete industry and quality investment is not seen as potentially generating a positive return. Improving Concrete Quality examines how and why concrete quality should be measured, and includes instruction on developing specifications with the aim of improving concrete quality. Reduce Concrete Variability: Reduce Costs and Increase Volume The first part of the book considers the tangible and intangible benefits of improved quality. The later chapters explore concrete

strength variability in detail. It provides a greater grasp of the variation in concrete, as well as a deeper understanding of how material variability affects concrete performance. The author discusses the components of variability (material, manufacturing, testing) and provides steps to measuring and reducing variability to improve the quality of concrete. The text also contains a chapter on data analysis for quality monitoring and test results. Come Away with Practices and Tools That Can Be Applied Immediately: Provides techniques and how specifications can improve concrete quality Offers a clear understanding of the link between the materials (cement, SCM, aggregate, water, air), manufacturing, testing variability, and concrete quality Includes information on analyzing test data to improve quality Improving Concrete Quality quantifies the benefits of improved quality, and introduces novel ways of measuring concrete quality. This text is an ideal resource for quality personnel in the concrete industry. It also benefits architects, engineers, contractors, and researchers.

For close to 20 years, [Industrial Engineering and Production Management] has been a successful text for students of Mechanical, Production and Industrial Engineering while also being equally helpful for students of other courses including Management. Divided in 5 parts and 52 chapters, the text combines theory with examples to provide in-depth coverage of the subject.

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

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.

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.