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## Principles of Environmental Engineering and Science

This text is well-suited for a course in introductory environmental engineering for sophomore, or junior level students. The emphasis is on concepts, definitions, descriptions, and abundant illustrations, rather than on engineering design detail.

## Environmental Engineering Science

John Wiley & Sons 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.

## Introduction to Environmental Engineering and Science

## Introduction to Environmental Engineering and Science

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

## Environmental Engineering and Sustainable Design

Cengage Learning Focus on critical contemporary issues as you examine engineering design and technologies within the context of models for managing systems' sustainability with ENVIRONMENTAL ENGINEERING AND SUSTAINABLE DESIGN, 2nd Edition. This best-selling invaluable resource, specifically designed for those studying engineering or applied environmental science, is updated with the latest developments and current, relevant case studies from across the globe. You learn how to incorporate sustainable practices into engineering design process, technological systems and the built environment. Expanded active learning exercises for each chapter guide you in applying theory to real situations. New chapters address developing issues and help bring sustainability science, environmental impact analysis and models of sustainability in engineering practice to the forefront. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## Principles of Environmental Engineering and Science

*Irwin/McGraw-Hill* This text is well-suited for a course in introductory environmental engineering for sophomore, or junior level students. The emphasis is on concepts, definitions, descriptions, and abundant illustrations, rather than on engineering design detail.

## Engineering Challenges for Sustainable Future

### Proceedings of the 3rd International Conference on Civil, Offshore and Environmental Engineering (ICCOEE 2016, Malaysia, 15-17 Aug 2016)

*CRC Press* Engineering Challenges for Sustainable Future contains the papers presented at the 3rd International Conference on Civil, Offshore & Environmental Engineering (ICCOEE2016, Kuala Lumpur, Malaysia, 15-17 August 2016), under the banner of World Engineering, Science & Technology Congress (ESTCON2016). The ICCOEE series of conferences started in Kuala Lumpur, Malaysia 2012, and the second event of the series took place in Kuala Lumpur, Malaysia 2014. This conference series deals with the civil, offshore & environmental engineering field, addressing the following topics: • Environmental and Water Resources Engineering • Coastal and Offshore Engineering • Structures and Materials • Construction and Project Management • Highway, Geotechnical and Transportation Engineering and Geo-informatics This book is an essential reading for academic, engineers and all professionals involved in the area of civil, offshore and environmental engineering.

## Omics for Environmental Engineering and Microbiology Systems

*CRC Press* Bioremediation using microbes is a sustainable technology for biodegradation of target compounds, and an omics approach gives more clarity on these microbial communities. This book provides insights into the complex behavior of microbial communities and identifies enzymes/metabolites and their degradation pathways. It describes the application of microbes and their derivatives for the bioremediation of potentially toxic and novel compounds. It highlights the existing technologies along with industrial practices and real-life case studies. Features: Includes recent research and development in the areas of omics and microbial bioremediation. Covers the broad environmental pollution control approaches such as metagenomics, metabolomics, fluxomics, bioremediation, and biodegradation of industrial wastes. Reviews metagenomics and waste management, and recycling for environmental cleanup. Describes the metagenomic methodologies and best practices, from sample collection to data analysis for taxonomies. Explores various microbial degradation pathways and detoxification mechanisms for organic and inorganic contaminants of wastewater with their gene expression. This book is aimed at graduate students and researchers in environmental engineering, soil remediation, hazardous waste management, environmental modeling, and wastewater treatment.

## Issues in Environmental Economics, Engineering, and Technology: 2013 Edition

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## Engineering and Technology Enrollments

## Engineering Applications in Sustainable Design and Development

*Cengage Learning* ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT is an invaluable resource for today's engineering student. Focusing on pressing contemporary issues, the text puts product design in the context of models of sustainability. Relevant case studies from across the globe will be of interest to engineers in training, and active learning exercises in each chapter help students learn to apply theory to real world situations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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*Cengage Learning* ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT is an invaluable resource for today's engineering student. Focusing on pressing contemporary issues, the text puts product design in the context of models of sustainability. Relevant case studies from across the globe will be of interest to engineers in training, and active learning exercises in each chapter help students learn to apply theory to real world situations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## Innovative Waste Management Technologies for Sustainable Development

*IGI Global* A rapidly growing population, industrialization, modernization, luxury life style, and overall urbanization are associated with the generation of enhanced wastes. The inadequate management of the ever-growing amount of waste has degraded the quality of the natural resources on a regional, state, and country basis, and consequently threatens public health as well as global environmental security. Therefore, there is an existent demand for the improvement of sustainable, efficient, and low-cost technologies to monitor and properly manage the huge quantities of waste and convert these wastes into energy sources. Innovative Waste Management Technologies for Sustainable Development is an essential reference source that discusses management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air, water, and soil pollution. This publication also explores the innovative concept of waste-to-energy and its application in safeguarding the environment. Featuring research on topics such as pollution management, vermicomposting, and crude dumping, this book is ideally designed for

environmentalists, policymakers, professionals, researchers, scientists, industrialists, and environmental agencies.

## Frontiers of Energy and Environmental Engineering

*CRC Press Frontiers of Energy and Environmental Engineering* brings together 192 peer-reviewed papers presented at the 2012 International Conference on Frontiers of Energy and Environment Engineering, held in Hong Kong, December 11-13, 2012. The aim of the conference was to provide a platform for researchers, engineers and academics as well as industry profes

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## The Chemistry of Environmental Engineering

*John Wiley & Sons* The focus of this book is the chemistry of environmental engineering and its applications, with a special emphasis on the use of polymers in this field. It explores the creation and use of polymers with special properties such as viscoelasticity and interpenetrating networks; examples of which include the creation of polymer-modified asphalt as well as polymers with bacterial adhesion properties. The text contains the issues of polymerization methods, recycling methods, wastewater treatment, types of contaminants, such as microplastics, organic dyes, and pharmaceutical residues. After a detailed overview of polymers in Chapter 1, their special properties are discussed in the following chapter. Among the topics is the importance of polymers to water purification procedures, since their use in the formation of reverse osmosis membranes do not show biofouling. Chapter 3 details special processing methods, such as atom transfer radical polymerization, enzymatic polymerization, plasma treatment, and several other methods, can be used to meet the urgent demands of industrial applications. Chapter 4 addresses the important environmental issue of recycling methods as they relate to several types of materials such as PET bottles, tire rubbers, asphalt compositions, and other engineering resins. And wastewater treatment is detailed in Chapter 5, in which the types of contaminants, such as microplastics, organic dyes and pharmaceutical residues, are described and special methods for their proper removal are detailed along with types of adsorbents, including biosorbents. Still another important issue for environmental engineering chemistry is pesticides. Chapter 6 is a thorough description of the development and fabrication of special sensors for the detection of certain pesticides. A detailed presentation of the electrical uses of polymer-based composites is given in Chapter 7, which include photovoltaic materials, solar cells, energy storage and dielectric applications, light-emitting polymers, and fast-charging batteries. And recent issues relating to food engineering, such as food ingredient tracing, protein engineering, biosensors and electronic tongues, are presented in Chapter 8. Finally, polymers used for medical applications are described in Chapter 9. These applications include drug delivery, tissue engineering, porous coatings and also the special methods used to fabricate such materials.

## Environmental Chemistry, Eighth Edition

*CRC Press Environmental Chemistry, Eighth Edition* builds on the same organizational structure validated in previous editions to systematically develop the principles, tools, and techniques of environmental chemistry to provide students and professionals with a clear understanding of the science and its applications. Revised and updated since the publication of the best-selling Seventh Edition, this text continues to emphasize the major concepts essential to the practice of environmental science, technology, and chemistry while introducing the newest innovations to the field. The author

provides clear explanations to important concepts such as the anthrosphere, industrial ecosystems, geochemistry, aquatic chemistry, and atmospheric chemistry, including the study of ozone-depleting chlorofluorocarbons. The subject of industrial chemistry and energy resources is supported by pertinent topics in recycling and hazardous waste. Several chapters review environmental biochemistry and toxicology, and the final chapters describe analytical methods for measuring chemical and biological waste. New features in this edition include: enhanced coverage of chemical fate and transport; industrial ecology, particularly how it is integrated with green chemistry; conservation principles and recent accomplishments in sustainable chemical science and technology; a new chapter addressing terrorism and threats to the environment; and the use of real world examples.

## Citrates—Advances in Research and Application: 2012 Edition

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## Material Science and Environmental Engineering

### Proceedings of the 3rd Annual 2015 International Conference on Material Science and Environmental Engineering (ICMSEE2015, Wuhan, Hubei, China, 5-6 June 2015)

*CRC Press Material Science and Environmental Engineering* presents novel and fundamental advances in the fields of material science and environmental engineering. Collecting the comprehensive and state-of-art in these fields, the contributions provide a broad overview of the latest research results, so that it will prove to be a valuable reference book to aca

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### Environmental Soil Science

*CRC Press* Completely revised and updated, incorporating almost a decade's worth of developments in this field, Environmental Soil Science, Third Edition, explores the entire reach of the subject, beginning with soil properties and reactions and moving on to their relationship to environmental properties and reactions. Keeping the organization and writing sty

### McGraw-Hill Encyclopedia of Environmental Science & Engineering

*McGraw-Hill Companies* Discusses topics in such fields as meteorology, public health, geophysics, and oceanography

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## British Qualifications

### Professional, Vocational and Academic Qualifications in the UK

*Kogan Page Publishers* The field of professional, academic and vocational qualifications is ever-changing. The new edition of this practical guide provides thorough information on all developments in these areas in the UK. Fully indexed, it includes details on all university awards and over 200 career fields, their professional and accrediting bodies, levels of membership and qualifications. British Qualifications is a unique resource for human resource managers and university admissions officers to verify the qualifications of potential employees and students.

## The MBR Book

### Principles and Applications of Membrane Bioreactors for Water and Wastewater Treatment

*Elsevier* The MBR Book covers all essential aspects of membrane bioreactors in water and wastewater treatment, including the working principles of MBR technologies. The book aims to separate science from engineering, in an attempt to avoid confusion and to help readers understand the ideas of MBR. The text is divided into five chapters; the membrane and biological aspects are discussed in chapter 2 along with scientific studies. The third chapter covers the design, operation, and maintenance of MBR, including cost modeling and cost benefit analysis. Chapters 4 and 5 cover the commercial MBR products and their applications for water and wastewater treatment, respectively. The text features industrial case studies, along with useful appendices of commercial and international membrane organizations. The book serves as a primary reference for chemical, environmental, and process engineers, as well as environmental researchers, natural resources researchers, filtration specialists, water company managers, and consultants. Membrane Bioreactors are a major growth area in the water and waste water treatment industries Internationally-known author, one of the leading senior experts in MBR research Principles and practice, backed by industrial case studies

## Eurasian Watermilfoil Control

## Environmental Impact Statement

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### Impact of Textile Dyes on Public Health and the Environment

*IGI Global* As society has become increasingly concerned with the protection and preservation of the environment, many industries have been pushed to comply with new policies and social demands for more environmentally-friendly and sustainable practices and products. However, the textile dyeing industry remains a significant source of complex environmental issues with legislative requirements that often vary in detail and severity concerning the exposure and hazards of potentially harmful chemicals and other associated materials. It is vital that the industry sector involved in the application of dyes continues to be sensitive to potential adverse effects on the environment in its widest sense and respond accordingly. Impact of Textile Dyes on Public Health and the Environment is an essential reference source that focuses on the environmental impact and social responsibility of the dyeing industry. While highlighting topics such as toxicology, bleaching, and greenhouse gases, this publication is ideally designed for chemists, industrialists, non-governmental organization members, environmentalists, fashion designers, clothes manufacturers, scientists, academicians, researchers, students, and practitioners seeking current research on dyeing's potentially adverse effects on the environment and strategic, effective responses.

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