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Green Sustainable Process
for Chemical and

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Environmental Engineering and Science: Switchable Solvents explores the preparation, properties, chemical processes and applications of this class of green solvents. The

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book provides an in-depth overview on the area of switchable solvents in various industrial applications, focusing on the purification and extraction of chemical

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compounds utilizing green chemistry protocols that include liquid-liquid, solid-liquid, liquid-gas and lipids separation technologies. In addition, it includes recent

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advances in greener extraction and separation processes. This book will be an invaluable guide to students, professors, scientists and R&D industrial specialists

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working in the field of sustainable chemistry, organic, analytical, chemical engineering, environmental and pharmaceutical sciences. Provides a broad overview

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of switchable solvents in
sustainable chemical
processes Compares the use
of switchable solvents as
greener solvents over
conventional solvents
Outlines eco-friendly

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organic synthesis and
chemical processes using
switchable solvents Lists
various industrial
separations/extraction
processes using switchable
solvents

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This text is well-suited for a course in introductory environmental engineering for sophomore, or junior level students. The emphasis is on concepts, definitions,

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descriptions, and abundant illustrations, rather than on engineering design detail.

Offers up-to-date technical information on current and potential

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pollution control and
waste minimization
practices, providing
industry-specific case
studies, techniques and
models.

Environmental engineers

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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

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for delivering water,
treating waste, and
preventing and remediating
pollution in air, water,
and soil. These
achievements are a
testament to the

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multidisciplinary,
pragmatic, systems-
oriented approach that
characterizes
environmental engineering.
Environmental Engineering
for the 21st Century:

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Addressing Grand Challenges outlines the crucial role for environmental engineers in this period of dramatic growth and change. The report identifies five

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pressing challenges of the
21st century that
environmental engineers
are uniquely poised to
help advance: sustainably
supply food, water, and
energy; curb climate

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change and adapt to its impacts; design a future without pollution and waste; create efficient, healthy, resilient cities; and foster informed decisions and actions.

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Journal of Environmental
Science and Health
Design Concepts, Second
Edition

Advances in Environment
Engineering and Management
Environmental Science &

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Engineering Laboratory
Manual

PRINCIPLES OF
ENVIRONMENTAL SCIENCE AND
ENGINEERING

This concise and
comprehensive dictionary of

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English/Spanish and Spanish/English equivalents and associated words and expressions covers a wide range of specialties in environmental science and engineering. It covers chemistry, biology, ecology,

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geology, hydrogeology, water and waste engineering, waste management and pollution control.

Applied Statistics for Environmental Science with R presents the theory and application of statistical

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techniques in environmental science and aids researchers in choosing the appropriate statistical technique for analyzing their data.

Focusing on the use of univariate and multivariate statistical methods, this

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book acts as a step-by-step resource to facilitate understanding in the use of R statistical software for interpreting data in the field of environmental science. Researchers utilizing statistical

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analysis in environmental science and engineering will find this book to be essential in solving their day-to-day research problems. Includes step-by-step tutorials to aid in understanding the process

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and implementation of unique
data Presents statistical
theory in a simple way
without complex mathematical
proofs Shows how to analyze
data using R software and
provides R scripts for all
examples and figures

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This book presents the proceedings of the First National Conference on “Sustainable Management of Environment & Natural Resource through Innovation in Science and Technology” (SMTST2020). The book

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highlights the latest
development and innovations
in the fields of
sustainability, natural
resource management, ecology
and its environmental
fields, geosciences and
geology, atmospheric

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sciences, sustainability, climate change, and extreme weather, global warming, and global change, the effect of climate change on the ecosystem, environment, and pollution, as well as putting a strong emphasis on

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the multidisciplinary
studies.

First published in 1983.

Routledge is an imprint of
Taylor & Francis, an informa
company.

Decommissioning Offshore
Structures

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Encyclopedia of
Environmental Science and
Engineering
Dictionary of Environmental
Science and Engineering
Material Science and
Environmental Engineering
McGraw-Hill Encyclopedia of

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Environmental Science &
Engineering

"Offers thorough coverage of the remediation of soils contaminated by hazardous wastes, including materials, analytical techniques, cleanup design and methodology,

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characterization of geomedia, monitoring of contaminants in the subsurface, and waste containment. Cites specific case studies in hydrocarbon remediation that offer a concise overview of possible technological

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approaches."

The book contains invited lectures and selected contributions presented at the Enzo Levi and XVII Annual Meeting of the Fluid Dynamic Division of the Mexican Physical Society in 2011. It is

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aimed to fourth year
undergraduate and graduate
students, and scientists in the
field of physics, engineering and
chemistry that have interest in
Fluid Dynamics from the
experimental and theoretical point

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of view. The invited lectures are introductory and avoid the use of complicate mathematics. The other selected contributions are also adequate to fourth year undergraduate and graduate students. The Fluid Dynamics

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applications include multiphase flow, convection, diffusion, heat transfer, rheology, granular material, viscous flow, porous media flow, geophysics and astrophysics. The material contained in the book includes

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recent advances in experimental and theoretical fluid dynamics and is adequate for both teaching and research.

First Published in 1992. Routledge is an imprint of Taylor & Francis, an informa company.

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Designed as a text for all undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in environmental health engineering and pollution and

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control engineering for students of civil engineering, this comprehensive text, now in its Second Edition provides an in-depth analysis of the fundamental concepts. It also introduces the reader to different niche areas of

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environmental science and engineering. The book covers a wide array of topics, such as natural resources, disaster management, biodiversity, and various forms of pollution, viz. water pollution, air pollution, soil

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pollution, noise pollution, thermal pollution, and marine pollution, as well as environmental impact assessment and environmental protection. This edition introduces a new chapter on Environment and Human Health. KEY

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FEATURES : Gives in-depth yet lucid analysis of topics, making the book user-friendly. Covers important topics, which are adequately supported by illustrative diagrams. Provides case studies to explore real-life

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problems. Supplies review questions at the end of each chapter to drill the students in self-study.

Advances in Wind Energy
Conversion Technology
Addressing Grand Challenges

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Advances in Environmental
Science and Engineering
Environmental Science and
Engineering
Fluid Dynamics in Physics,
Engineering and Environmental
Applications

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The field of environmental engineering is rapidly emerging into a mainstream engineering discipline. For a long time, environmental

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engineering has suffered from the lack of a well-defined identity. At times, the problems faced by environmental engineers require knowledge in many

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engineering fields,
including chemical,
civil, sanitary, and
mechanical engineering.
Increased demand for
undergraduate training
in environmental

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engineering has led to growth in the number of undergraduate programs offered. Fundamentals of Environmental Engineering provides an introductory approach

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that focuses on the basics of this growing field. This informative reference provides an introduction to environmental pollutants, basic

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engineering principles,
dimensional analysis,
physical chemistry,
mass, and energy and
component balances. It
also explains the
applications of these

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ideas to the
understanding of key
problems in air, water,
and soil pollution.
Environmental
Management: Science and
Engineering for Industry

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consists of 18 chapters,
starting with a
discussion of
International
Environmental Laws and
crucial environmental
management tools,

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including lifecycle,
environmental impact,
and environmental risk
assessments. This is
followed by a frank
discussion of
environmental control

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and abatement
technologies for water,
wastewater, soil, and
air pollution. In
addition, this book also
tackles Hazardous Waste
Management and the

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landfill technologies available for the disposal of hazardous wastes. As managing environmental projects is a complex task with vast amounts of data, an

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array of regulations,
and alternative
engineering control
strategies designed to
minimize pollution and
maximize the effect of
an environmental

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program, this book helps readers further understand and plan for this process. Contains the latest methods for Identifying, abating, or eliminating pollutants

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from air, water, and
land Presents up-to-date
coverage on
environmental management
tools, such as risk
assessment, energy
management and auditing,

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environmental

accounting, and impact
assessments Includes
methods for collecting
and synthesizing data
derived from
environmental

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"The authors . . .
continue the pursuit of
new knowledge,
calculated to bring new
fruits of health,
safety, and comfort to

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man and his environs.

The charms, as well as
the subtle hazards, of
the terms 'conservation,
preservation, and
ecology' need to be
crystallized so that the

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public and their
decision-makers practice
this complex art with
clearer conception and
perception than is
apparent in recent
bitter confrontations."

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Abel Wolman What's New
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entries on environmental
and occupational
toxicology,

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geoengineering, and lead
abatement Twenty-five
significantly updated
entries, including
expanded discussion of
water supplies and waste
water treatment, biomass

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and renewable energy,
and international public
health issues An
expanded list of
acronyms and
abbreviations
Encyclopedia of

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Environmental Science
and Engineering, Sixth
Edition is still the
most comprehensive,
authoritative reference
available in the field.
This monumental two-

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volume encyclopedia now
includes entries on
topics ranging from acid
rain, air pollution, and
community health to
environmental law,
instrumentation,

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modeling, alternative energy, radioactive waste, and water treatment. The broad coverage includes highly specialized topics as well as those that

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transcend traditional
disciplinary boundaries,
reflecting the
interdisciplinary skills
and knowledge required
by environmental
researchers and

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engineers. Featuring expert contributors representing industry, academia, and government agencies, the encyclopedia presents fundamental concepts and

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applications in environmental science and engineering. The entries are supported by extensive figures, photographs, tables, and equations. This sixth

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edition includes new material on water supplies and wastewater treatment, biomass and renewable energy, and international public health issues. New

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entries cover
environmental and
occupational toxicology,
geoengineering, and lead
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Focused on current
environmental problems,
their causes, effects,
and solutions, this text

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explores the basic nature of the natural systems. Using a technical (quantitative) approach - unusual for a book at the introductory level - it maintains a

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broad perspective that
appeals to all students,
but at the same time is
useful to those
proceeding further in
environmental or
sanitary engineering.

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*features unusually
broad and balanced
coverage of topics: in
addition to the
traditional topics of
water quality,
wastewater treatment,

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and air pollution, it explains the root causes of environmental problems and clarifies the relationships between natural systems and technology.

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*provides discussions on solid and hazardous wastes, environmental management, and ethics - topics seldom found in a single text. *offers an authoritative

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perspective on both
theory and practice: the
authors are world
renowned scientists and
engineers with academic
and practical experience
in environmental

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matters. *NEW -
discusses the changing
role of technology -
e.g., preventive
technology as an
alternative to
traditional end-of-pipe

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solutions. *NEW -
considers recent data on
the causes of
environmental problem
Green Sustainable
Process for Chemical and
Environmental

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Engineering and Science
Fundamentals of
Environmental
Engineering
Environmental
Engineering Science

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Earthquakes and Health
Monitoring of Civil
Structures

**Health monitoring of
civil structures (HMS)
is a new discipline,
which contributes to**

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**successful and on time
detection of damages to
structures. This book is
a collection of chapters
on different topics
written by leading
scientists in the field.**

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It is primarily focused on the latest achievements in monitoring the earthquake effect upon the health of civil structures. The first

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**chapter of the book
deals with the
geotechnical and
structural aspects of
the 2010-2011
Christchurch
earthquakes. Further**

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**chapters are dedicated
to the latest HMS
techniques of
identification of damage
to structures caused by
earthquakes. Real time
damage detection as well**

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**as sensors and
acquisition systems used
for that purpose are
presented. The attention
is focused on automated
modal analysis, dynamic
artificial neural**

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**networks and wavelet
techniques used in HMS.
Particular emphasis is
put on wireless sensors
and piezo-impedance
transducers used for
evaluation of**

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**seismically induced
structural damage. The
discussion is followed
by presentation of case
studies of application
of health monitoring for
buildings and other**

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**civil structures,
including a super tall
structure. The book ends
with a presentation of
shaking table tests on
physical models for the
purpose of monitoring**

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**their behaviour under
earthquake excitation.
Audience The book is
primarily intended for
engineers and scientists
working in the field of
application of the HMS**

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technique in earthquake engineering. Considering that real time health monitoring of structures represents a sophisticated approach applying the latest

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**techniques of monitoring
of structures, many
experts from other
industries will also
find this book useful.**

**ELEMENTS OF
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Of The Natural And Man-

Made World Encompassing

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**Various Scientific,
Economic, Social And
Ethical Aspects. Human
Impacts Leading To Large-
Scale Degradation Of The
Environment Have Aroused
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Apex Court Has Hence,
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Analyzed In A Simple
Manner Strictly As Per
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For Those Appearing In
Various Competitive**

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Exams Since

**Environmental Issues Now
Find A Focus In Most Of
Such Examinations. The
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Will Be Of Interest To
All Educationists,**

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**Planners And Policy
Makers.Key Features Of
The Book Include A
Simple And Holistic
Approach With
Illustrations, Tables
And Specific Case**

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Indian Context. The
Basic Terminologies Have
Been Defined In The Text
While Introducing The
Topics And Some Useful
Terms Mentioned In The**

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In The Glossary For An
Easy Grasp By Students
Of All Disciplines.
This book covers the
fundamentals of
environmental**

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**engineering and
applications in water
quality, air quality,
and hazardous waste
management. It begins by
describing the
fundamental principles**

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**that serve as the
foundation of the entire
field of environmental
engineering. Readers are
then systematically
reintroduced to these
fundamentals in a manner**

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**that is tailored to the
needs of environmental
engineers, and that is
not too closely tied to
any specific
application.**

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Environmental science
and engineering
Data Analysis and
Statistics for
Geography, Environmental
Science, and Engineering**

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**Environmental Protection
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China**

*Discusses topics in such
fields as meteorology,
public health, geophysics,*

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and oceanography

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for twenty-first-century
scientists and engineers,
Data Analysis and Statistics
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*contributions provide a
broad overview of the latest
research results, so that it
will prove to be a valuable
reference book to aca*

*The growth of the
environmental sciences has
greatly expanded the scope of*

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*biological disciplines
today's engineers have to
dealwith. Yet, despite its
fundamental importance, the
full breadth ofbiology has
been given short shrift in
most
environmentalengineering and*

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this gap in the professional
literature,
EnvironmentalBiology for
Engineers and Scientists
introduces students
ofchemistry, physics,
geology, and environmental*

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*engineering to abroad range
of biological concepts they
may not otherwise beexposed
to in their training. Based
on a graduate-level
coursedesigned to teach
engineers to be literate in
biological conceptsand*

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*terminology, the text covers
a wide range of biology
without making it tedious for
non-biology majors. Teaching
aids include: * Notes,
problems, and solutions *
Problem sets at the end of
each chapter **

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*PowerPoints(r) of many
figures A valuable addition
to any civil engineering and
environmental studies
curriculum, this book also
serves as an
important professional
reference for practicing*

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*environmental
professionals who need to
understand the biological
impacts of pollution.
A Comprehensive Laboratory
Manual For Environmental
Science And Engineering
Environmental Science And*

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Analysis for Scientists and
Engineers*

*Principles of Environmental
Engineering and Science*

Proceedings of the 1st

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*National Conference on
Sustainable Management of
Environment and Natural
Resource Through Innovation
in Science and Technology*
Increasingly over the next few
decades, the oil and gas

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industry faces the complex task of decommissioning its offshore platforms, pipelines and sub-sea equipment as they reach the end of their operational capabilities. Decommissioning involves and integrates many

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distinct aspects: engineering, environmental, economic, legal, political and safety considerations. A practical strategy for removing and disposing these structures needs to be developed which

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best meets the demands of all of these different aspects.

Specialists in these various fields have been brought together for this volume to contribute their assessments of the situation.

The result is an important step

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toward the development of a coordinated approach to the subject. It is essential reading for all those who are involved with major decommissioning projects, their possible environmental impact and their

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implications in politics and law. With an annual growth rate of over 35%, wind is the fastest growing energy source in the world today. As a result of intensive research and developmental efforts, the

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technology of generating energy from wind has significantly changed during the past five years. The book brings together all the latest aspects of wind energy conversion technology - right from the

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wind resource analysis to grid integration of the wind generated electricity. The chapters are contributed by academic and industrial experts having vast experience in these areas. Each chapter begins with

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an introduction explaining the current status of the technology and proceeds further to the advanced level to cater for the needs of readers from different subject backgrounds. Extensive bibliography/references

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appended to each chapter give further guidance to the interested readers.

"This second edition of Remediation Engineering will continue to be the seminal handbook that regulators must

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have on-hand to address any of the remediation issues they are grappling with daily. The book is wide-ranging, but specific enough to address any environmental remediation challenge." —Patricia Reyes,

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Interstate Technology
Regulatory Council,
Washington, DC, USA "This book
offers the researcher, teacher,
practitioner, student, and
regulator with state-of-the-art
advances in conducting site

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investigations and remediation for common and emerging contaminants. It is revolutionary in its approach to conducting subsurface investigation, which greatly influences a successful and appropriate response in

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assessing and addressing
environmental risk. This book is
a giant leap forward in
understanding how
contaminates behave and how
to reduce risk to acceptable
levels in the natural world."

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—Daniel T. Rogers, Amsted
Industries Incorporated,
Chicago, Illinois, USA "This text
is a superb reference and a good
tool for learning about state-of-
the-art techniques in
remediation of soil and

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groundwater. [It] will become a ready reference at many companies as the engineering community creates increased value from remediation efforts around the world." —John Waites, AVX Corporation,

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Fountain Inn, South Carolina,
USA Remediation Engineering
was first published in 1996 and
quickly became the go-to
reference for a relatively young
industry, offering the first
comprehensive look at the state-

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of-the-science in treatment technologies of the time and the contaminants they applied to. This fully updated Second Edition will capture the fundamental advancements that have taken place during the

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last two decades within all the subdisciplines that form the foundation of the remediation engineering platform. It covers the entire spectrum of current technologies that are employed in the industry and also

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discusses future trends and how practitioners should anticipate and adapt to those needs. Features: Shares the latest paradigms in remediation design approach and contaminant hydrogeology

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Presents the landscape of new and emerging contaminants
Details the current state of the practice for both conventional technologies, such as sparging and venting
Examines newer technologies such as dynamic

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groundwater recirculation and injection-based remedies to address both organic and inorganic contaminants.

Describes the advances in site characterization concepts such as smart investigations and

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from diverse branches of engineering and environmental science. The aim of this book is to educate the reader about various theories and practical applications of environmental engineering, such as environmental preservation, control and effective management

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of waste from human and animal activities, waste water management, etc. It strives to provide a better understanding of the interactions between human beings and their environment. This book is highly recommended for the students of various branches of

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