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Engineering
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the tools to
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considerations
Rao
of engineering
and
environmental
projects to
help steer
fundamental
legislation in
the right
direction.
This book

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begins with a
discussion of
the basics of
the
hydrological
cycle and a
description of
the natural
aquatic
environment
including the
normal

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composition of
surface
waters.

Further
chapters
detail the
sources of
water
pollution and
the affects of
water
pollution

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including
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biological
treatment of
sewerage,
sludge
treatment and
disposal,
before
addressing
industrial
wastewater
treatment and

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series and
their focus on
water, noise,
air and waste,
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Air Pollution
Control; Ganga
Action Plan;

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Waste Water
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Treatment;
Water Supply
Management;
Industrial
Pollution
Abatement And
Environment
Audit.
Membrane Based
Technologiesfo
r

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Control

explains the
application of
this green
technology
while offering
a systematic
approach for
accurately
utilizing

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mathematical
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modeling
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methods for
optimizing
system design
and scale-up.
The book
provides in-
depth coverage
of membrane
processes,
materials and

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modules, along
with their
potential
application in
various
pollution
control
systems. Each
chapter
provides a
systematic
approach for

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dynamic model
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development
Rao
and solutions.

With this
reference,
researchers
and those
responsible
for the design
of pollution
control
systems will

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find a source
that can
maximize their
efforts to
reduce or
prevent
pollutants
from entering
all types of
environmental
media.
Provides a

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approach for
designing
membrane
technology
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for pollution
reduction or
prevention in
all types of
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media Includes

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to illustrate
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actual
projects to
explain the
problems and
solutions
associated
with system
scale-up
Introduces
dynamic

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modeling and
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analysis for
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process intens
ification

This handbook
provides
information
for
professionals
attempting to
reduce and
eliminate air

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pollution
problems. It
contains
information on
all aspects of
air pollution,
and also
examines the
technical
aspects of air
pollution
control

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equipment.
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Many practical
applications
are provided,
and the text
is referenced
to assist the
reader in
further
research. The
major
scientific

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areas of air
pollution are
brought
together with
practical
engineering
solutions, and
will help air
quality and
pollution
control
managers to

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reduce
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maintenance
Rao
costs and
prevent
deterioration
of
installations.
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Age

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introductory
textbook
designed for a
one-semester
course in
environmental
technology.
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appeal to a
range of

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students, it
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combines lucid
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presentations
of
environmental
technologies
with
fascinating
stories and
biographies
illustrating
milestones in

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environmental
science and
engineering.

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engineering
has a leading
role in the
elimination of
ecological
threats, and
can deal with
a wide range

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of technical
and
technological
problems due
to its interdi
sciplinary
character. It
uses the
knowledge of
the basic
sciences
biology,

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chemistry,
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biochemistry
Rao
and physics to
neutralize
pollution in
all the
elements of
the environm
Complex
environmental
problems are
often reduced

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to an
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inappropriate
level of
simplicity.
While this
book does not
seek to
present a
comprehensive
scientific and
technical
coverage of

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all aspects of
the subject
matter, it
makes the
issues, ideas,
and language
of
environmental
engineering
accessible and
understandable
to the

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nontechnical
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reader.
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Improvements
introduced in
the fourth
edition
include a
complete
rewrite of the
chapters
dealing with
risk

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assessment and
ethics, the
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introduction
of new
theories of
radiation
damage,
inclusion of
environmental
disasters like
Chernobyl and
Bhopal, and

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general
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updating of
all the
content,
specifically
that on
radioactive
waste. Since
this book was
first
published in
1972, several

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generations of
students have
become environ
mentally aware
and conscious
of their respo
nsibilities to
the planet
earth. Many of
these
environmental
pioneers are

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now teaching
in colleges
and
universities,
and have in
their classes
students with
the same sense
of dedication
and resolve
that they
themselves

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brought to the
discipline. In
those days, it
was sometimes
difficult to
explain what
indeed
environmental
science or
engineering
was, and why
the

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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

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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,

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much has not.
We still have
air pollution;
we still
contaminate
our water
supplies; we
still dispose
of hazardous
materials
improperly; we
still destroy

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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

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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

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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

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humans, and be
able to
manipulate
concepts of
risk
management.
With
increasing
population,
and fewer
alternatives
to waste

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disposal, this
problem is
intensified.

Environmental
laws have
changed, and
will no doubt
continue to
evolve.

Attitudes
toward the
environment

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are often
couched in
what has
become known
as the
environmental
ethic.
Finally, the
environmental
movement has
become
powerful

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politically,
and environmen
talism can be
made to serve
a political
agenda. In
revising this
book, we have
attempted to
incorporate
the evolving
nature of

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environmental
sciences and
engineering by
adding
chapters as
necessary and
eliminating
material that
is less
germane to
today's
students. We

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have
nevertheless
maintained the
essential
feature of
this book --
to package the
more important
aspects of
environmental
engineering
science and

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technology in
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an organized
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manner and
present this
mainly
technical
material to a
nonengineering
audience. This
book has been
used as a text
in courses

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which require
no
prerequisites,
although a
high school
knowledge of
chemistry is
important. A
knowledge of
college level
algebra is
also useful,

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but calculus
is not
required for
the
understanding
of the
technical and
scientific
concepts. We
do not intend
for this book
to be

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scientifically
and
technically
complete. In
fact, many
complex
environmental
problems have
been
simplified to
the threshold
of pain for

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many engineers
and
scientists.

Our objective,
however, is
not to impress
nontechnical
students with
the rigors and
complexities
of pollution
control

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technology but
rather to make
some of the
language and
ideas of
environmental
engineering
and science
more understand-
able.

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Leading pollution
control educators
and practicing
professionals
describe how

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various
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combinations of
different cutting-
edge process
systems can be
arranged to solve air,
noise, and thermal
pollution problems.
Each chapter
discusses in detail a
variety of process
combinations, along
with technical and

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economic
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evaluations, and
Rao
presents
explanations of the
principles behind the
designs, as well as
numerous variant
designs useful to
practicing engineers.
The emphasis
throughout is on
developing the
necessary

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engineering solutions from fundamental principles of chemistry, physics, and mathematics. The authors also include extensive references, cost data, design methods, guidance on the installation and operation of

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various air pollution
control process
equipment and
systems, and Best
Available
Technologies (BAT)
for air thermal and
noise pollution
control.

Engineers in multiple
disciplines—environ
mental, chemical,
civil, and mechanical

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—contribute to our
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understanding of air
pollution control. To
that end, Noel de
Nevers has
incorporated these
multiple
perspectives into an
engaging and
accessible overview
of the subject. While
based on the
fundamentals of

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chemical
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book is accessible to
any reader with only
one year of college
chemistry. In
addition to detailed
discussions of
individual air
pollutants and the
theory and practice
of air pollution
control devices, de

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Nevers devotes seven chapters to topics that influence device selection and design, such as atmospheric models and U.S. air pollution law. The Third Edition's many in-text examples and end-of-chapter problems provide a more complex

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treatment of the
concepts presented.

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include more
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greenhouse gas
emissions and a
thorough look at the
Volkswagen diesel-
emission scandal.
This book provides a
comprehensive

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introduction to air,
water, noise, and
radioactive materials
pollution and its
control. Legal and
regulatory principles
and risk analysis are
included in addition
to engineering
principles. The text
presents the
engineering
principles governing

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the generation and control of air and water pollutants, solid and hazardous waste, and noise. Water quality and drinking water treatment are discussed, as well as the elements of risk analysis. Radioactive waste generation and

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treatment in relation to the nuclear fuel cycle, are discussed. The health and environmental effects of all these pollutants are discussed. An introduction to the Federal laws and regulations governing pollution is included. This text

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embraces the latest
thinking in
environmental
engineering Includes
updates in regulation
and current pollution
abatement
technologies

Air pollution control
and air quality
engineering are
some of the key
subjects in any

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environmental
engineering
curriculum. This
book will cover
topics that are
fundamental to
pollution control
engineers and
professionals,
including air pollution
and its management
through regulatory
approaches,

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calculating and
estimating

emissions, and
applying con

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Thorough Treatment

Of The Principles Of

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The Origin Of Air,
Water And Land
Pollutants, Their
Effect On The
Environment And
The Methods
Available To Control
Them. The
Demographic And
Environmental
Trends, Energy
Consumption
Patterns And Their

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Concepts To The
Design Of Pollution
Control Equipment Is
Emphasized. Due
Importance Is Given
To Modelling,

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Specific Major
Pollutants. A
Separate Chapter
On The
Management Of
Hazardous Wastes
Is Added.
Information
Pertaining To Indian
Conditions Is Given
Wherever Possible

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To Help The Reader
Gain An Insight Into
India Sown Pollution
Problems.This Book
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Also Serve As A
Reference Book To
Practising Engineers
And Decision
Makers Concerned
With Environmental
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Complex
environmental
problems are often
reduced to an
inappropriate level of

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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

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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

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environmental
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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

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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

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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

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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,

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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understandable.
PAV JJP RFW An
introduction to the
more important
aspects of
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technology. Well
organized and
suitable for both the
technical and non-
technical reader.
Ideal for the student

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taking courses in this
field who does not
have an extensive
engineering,
mathematical, or
environmental
background.

This is a major new
handbook that
covers hundreds of
subjects that cross
numerous industry
sectors; however,

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the handbook is
heavily slanted to oil
and gas

environmental
management, control
and pollution
prevention and
energy efficient
practices. Multi-
media pollution
technologies are
covered : air, water,
solid waste, energy.

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Students,
technicians,
practicing engineers,
environmental
engineers,
environmental
managers, chemical
engineers, petroleum
engineers, and
environmental
attorneys are all
professionals who
will benefit from this

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major new reference
source. The
handbook is
organized in three
parts. Part A
provides an
extensive
compilation of
abbreviations and
concise glossary of
pollution control and
engineering
terminology. More

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than 400 terms are defined. The section is intended to provide a simple look-up guide to confusing terminology used in the regulatory field, as well as industry jargon. Cross referencing between related definitions and acronyms are

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provided to assist
the user. Part B
provides physical
properties and
chemical safety
information. This
part is not intended
to be exhaustive;
however it does
provide
supplemental
information that is
useful to a number of

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the subject entries covered in the main body of the handbook. Part C is the Macropedia of Subjects. The part is organized as alphabetical subject entries for a wide range of pollution controls, technologies, pollution prevention

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practices and tools,
computational
methods for
preparing emission
estimates and
emission inventories
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articles have been
prepared by the
author, providing a
concise overview of
each subject,

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supplemented by
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estimates as in
cases pertinent to
preliminary sizing
and selection of
pollution controls or
in preparing
emissions
inventories for
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and recommended

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references materials
and web sites for
more in-depth
information, data or
computational tools.
Each subject entry
provides a working
overview of the
technology, practice,
piece of equipment,
regulation, or other
relevant issue as it
pertains to pollution

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guide for both
fundamentals and
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comprehensive
guide to
environmental
engineers who
desire to contribute
to mitigating
problems, such as

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flooding, caused by
extreme weather
events, protecting
populations in
coastal areas
threatened by rising
sea levels, reducing
illnesses caused by
polluted air, soil, and
water from
improperly regulated
industrial and
transportation

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activities, promoting the safety of the food supply. Contributors not only cover such timely environmental topics related to soils, water, and air, minimizing pollution created by industrial plants and processes, and managing wastewater,

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hazardous, solid,
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and other industrial
wastes, but also
treat such vital topics
as porous pavement
design, aerosol
measurements,
noise pollution
control, and
industrial waste
auditing. This
important handbook:
Enables

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Minimization

This book focuses
on various aspects
related to air

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pollution, including major sources of air pollution, measurement techniques, modeling studies and solution approaches to control. The book also presents case studies on measuring air pollution in major

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urban areas, such as
Delhi, India. The
book examines
vehicles as a source
of air pollution and
addresses the
quantitative
analysis of engine
exhaust emissions.
Subsequent
chapters discuss
particulate matter
from engines and

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coal-fired power plants as a major pollutant, as well as emission control techniques using various after treatment systems. The book 's final chapter considers future perspectives and a way forward for sustainable development. It also

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discusses several emission control techniques that will gain relevance in the future, when stricter emission norms will be enforced for international combustion (IC) engines as well as power plants. Given its breadth of

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coverage, the book will benefit a wide variety of readers, including researchers, professionals, and policymakers.

This book defines environmental reaction engineering principles, including reactor design, for

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the development of processes that provide an environmental benefit. With regard to pollution prevention, the focus is primarily on new reaction and reactor technologies that minimize the production of undesirable side-

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products
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(pollutants), but the
use of reaction
engineering as a
means of treating
wastes that are
produced through
other means is also
considered. First is
a section on
environmentally
benign combustion.
The three papers

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discuss methods of reducing the formation of PAHs and NO_x, as well as other environmentally sensitive combustion products. The next section contains a collection of contributions that involve the use of a

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catalyst to support the reaction.

Following this is a section on the use of supercritical fluid solvents as environmentally friendly media for chemical reactions. Finally, a series of papers is presented in which novel reactor designs are

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utilized to obtain product yields not possible in conventional reactor systems.

These include the use of reactor-absorber systems, reactive distillation, and reactive membranes. The book concludes with a chapter

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contributed by the
editors which
discusses the
educational aspects
of pollution
prevention. It is
necessary for future
generations of
engineers to be
trained to design
processes that are
inherently
environmentally

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benign. This chapter assembles resource materials for educators which will spark the creative instincts of the researchers using the materials contained within this book to develop new resources for pollution prevention education. The

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broad spectrum of
topics included in
this book indicates
the diversity of this
area, and the
vibrant nature of
the ongoing
research. The
possibilities of
producing desirable
products without
the formation of
waste byproducts

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are bounded only
by the creativity of
the reaction
engineer.

Introductory
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for mechanical
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engineers and
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a group of leading
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why green polymers
are needed, which
green polymers to
use, and how

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manufacturing companies can integrate them into their manufacturing operations. It goes on to provide guidelines for implementing sustainable practices for traditional petroleum-based plastics, biobased

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recycled plastics.

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technologies and
the discovery of
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monomers, research
shows that green
polymers with
better properties
can be produced

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resources. The book
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describes these
advances in
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technology. It
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state-of-the-art
information but also
acts to stimulate
research in this
direction. Green

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processes. It also
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noise pollution and
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guide, summary and
introduction to the
journal literature in
separate but

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relevant disciplines.
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single source. This handbook (Volume Two of Two) covers the principals of pollution prevention and control technologies, recent advances in pollution prevention, control technologies and their sustainability, modernization in

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pollution prevention
and control
technologies for
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technologies. The
book is an
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resource for
researchers and
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engineering, safety
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Provides in-depth
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principles and
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pollution prevention
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minimize the
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impact of its various
operations. This
extensively
researched book
assembles a
tremendous amount
of practical
information to help
reduce and control
the environmental
consequences of

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producing and processing petroleum and natural gas. The best way to treat pollution is not to create it in the first place. This book shows you how to plan and manage production activities to minimize and even eliminate some

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problems without severely disrupting operations. It focuses on ways to treat drilling and production wastes to reduce toxicity and/or volume before their ultimate disposal. You'll also find methods for safely

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transporting toxic materials from the upstream petroleum industry away from their release sites. For those sites already contaminated with petroleum wastes, this book reviews the remedial technologies available. Other

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topics include
United States
federal
environmental
regulations,
sensitive habitats,
major U.S. chemical
waste exchanges,
and offshore
releases of oil.

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essential for
industry personnel
with little or no
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*A panel of
respected air
pollution control
educators and
practicing
professionals
critically survey
the both principles
and practices
underlying control
processes, and
illustrate these*

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*with a host of
detailed design
examples for
practicing
engineers. The
authors discuss
the performance,
potential, and
limitations of the
major control proc
esses-including
fabric filtration,*

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*cyclones,
electrostatic
precipitation, wet
and dry scrubbing,
and condensation-
as a basis for
intelligent
planning of
abatement
systems,.
Additional
chapters critically*

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*examine flare
processes,
thermal oxidation,
catalytic
oxidation, gas-
phase activated
carbon adsorption,
and gas-phase
biofiltration. The
contributors detail
the Best Available
Technologies*

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*(BAT) for air
pollution control
and provide cost
data, examples,
theoretical
explanations, and
engineering
methods for the
design,
installation, and
operation of air
pollution process*

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*equipment.
Methods of
practical design
calculation are
illustrated by
numerous
numerical
calculations.
The book covers
the important
aspects of water,
air and noise*

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*pollution. Using a
multidisciplinary
approach, it
highlights the
impact of
environmental
pollution in the
world. It also
suggests methods
for controlling and
scientific
monitoring of*

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*pollution-causing
agents. Also
included are
chapters on
efficient
guidelines and
standards,
radioactive waste,
solid waste
disposal and
sewage
treatment, oil*

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pollution and role of insecticides. Pollution in tanneries, fertilizer industry, and pulp and paper industries is also covered. The last few chapters are devoted to environmental management,

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*benefit-cost
analysis and
mathematical
modelling for
environmental
pollution control
Compiling
knowledge gained
through more
than 50 years of
experience in
environmental*

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*engineering
technology, this
book illustrates
the application of
fundamental
concepts in
microbiology to
provide a sound
basis for the
design and
operation of
various biological*

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*systems used in
solving
environmental
challenges in the
air, water, and
soil.*

*Environmental
Pollution Control
Microbiology
emphasizes the
quantitative
relationships of*

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*microbial growth
and metabolism,
beginning an
examination of
the overall
metabolism and
resulting growth
of bacteria, fungi,
algae, protozoa,
rotifers, and other
microorganisms
and explains how*

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bacteria bring about the stabilization of biodegradable organic pollutants. During the last two decades, the environmental pollution regulations have undergone a vast change. Attempts

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*have been made
to refine the
conventional
technologies and
to develop new
technologies to
meet increasingly
more stringent
environmental
quality criteria.
The challenge that
one faces today is*

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*to meet these
stringent
requirements in
an
environmentally
acceptable and
cost effective
manner. The
present book
addresses the
application of the
state-of-the-art*

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technology to the
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solutions to
today's problems
in industrial
effluent pollution
control and
environmental
protection. The
highlight of this
book is the
inclusion of the
salient features of

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process
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modifications and
other important
methods and
techniques for the
minimization of
wastes. The
chapter on
process
modification for
waste
minimization

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provides new technical features and tools, latest technologies and techniques, and other industrial operations.

Besides, the text covers the role of an environmental engineer in the methodology for

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*making pollution
control decisions.*
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KEY FEATURES :

*Includes
numerous self-
explanatory
tabular and
diagrammatic
representations.
Presents pollution
problems of few
chemical and*

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*processing
industries.*
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*Provides case
studies on
environmental
pollution problems
and their
prevention.*

*Analyzes
thoroughly the
planning and
strategies of*

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*environmental
protection.*
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*Designed as a
textbook for the
undergraduate
students of civil
and chemical
engineering, this
book will also be
useful to the
postgraduate
students of*

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*environmental
science and
engineering.*
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*This book provides
a fully
comprehensive,
rigorous and
refreshing
treatment of 'Air
Pollution and
Control' covering
present day*

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*technology and
developments. It
covers various
new topics like
bioaerosols or
aeroallergens and
hazardous air
pollutants
including diesel
exhaust and
dioxins. The book
is intended to*

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*meet the
requirements of
(a) Undergraduate
and postgraduate
students of
particularly
Environmental
and Mechanical
Engineering and
also other
branches of
Engineering, (b)*

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Technologists,
Engineers By Cs
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designers,
operation and
maintenance
engineers of
industries,
electrical power
plants, heat and
power utilities, (c)
Aspirants for
competitive
examinations of

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*IAS, IES, IFS, PCS,
and aspirants for
various state and
private technical
services, etc. and
(d)General
readers interested
in the field for
better
understanding
and knowledge.
The book is*

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*divided into 20
chapters and
presents
enormous
information
covering all
aspects of Air
Pollution in
various sectors
relevant to Indian
conditions. Each
of the following*

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chapters is followed by questions at the end based upon the text.

In the debate over pollution control, the price of pollution is a key issue. But which is more costly: clean up or prevention?

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*From regulations
to technology
selection to
equipment design,
Air Pollution
Control
Technology
Handbook serves
as a single source
of information on
commonly used
air pollution*

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control
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technology. It
Rao
covers

*environmental
regulations and
their history,
process design,
the cost of air
pollution control
equipment, and
methods of
designing*

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*equipment for
control of gaseous
pollutants and
particulate matter.
This book covers
how to: Review
alternative design
methods Select
methods for
control Evaluate
the costs of
control equipment*

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*Examine
equipment
proposals from
vendors With its
comprehensive
coverage of air
pollution control
processes, the Air
Pollution Control
Technology
Handbook is a
detailed reference*

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*for the practicing
engineer who
prepares the basic
process
engineering and
cost estimation
required for the
design of an air
pollution control
system. It
discusses the
topics in depth so*

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*that you can apply
the methods and
equations
presented and
proceed with
equipment design.
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cater to the needs
of students who
want to pursue a
Diploma in
Engineering,*

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B.Sc.(Engg.)
students.*

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Tech, M.E.)
students. AMIE
(Associate
membership of*

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examination.

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Chemical
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examination. AIC
(Associateship of
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engineers in the
field of
environmental
engineering.
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engineering
professionals.
The book
illustrates theories

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*of sustainable
development from
physical, chemical
and biological
aspects, and then
introduces
technologies to
prevent pollution
of water, air, solid
waste and noise,
finally concludes
with ecological*

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*environmental
protection and
restoration*

*techniques. With
interdisciplinary
features and
abundant case
studies, it is an
essential
reference for
researchers and
industrial*

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This text covers the environmental spectrum in an attempt to update the reader on new technologies and topics regarding pollution control. It is intended as a reference for technological

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*advances, regulations
and pollution control.*

*The past few years
have seen the
emergence of a
growing, widespread
desire in this country,
and indeed
everywhere, that
positive actions be
taken to restore the
quality of our
environment, and to
protect it from the*

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degrading effects of
all forms of pollution-
air, noise, solid waste,
and water. Since
pollution is a direct or"
indirect consequence
of waste, if there is no
waste, there can be
no pollution, and the
seemingly idealistic
demand for" zero
discharge" can be
construed as a
demand for zero

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waste. However, as long as there is waste, we can only attempt to abate the consequent pollution by converting it to a less noxious form. In those instances in which a particular type of pollution has been recognized, three major questions usually arise: 1, How serious is the

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pollution? 2, Is the
technology to abate it
available? and 3, Do
the costs of
abatement justify the
degree of abatement
achieved? The
principal intention of
this series of books is
to help the reader to
formulate answers to
the last two of the
above three
questions. The

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traditional approach of applying tried-and-true solutions to specific pollution problems has been a major factor contributing to the success of environmental engineering, and in large measure has accounted for the establishing of a "methodology of pollution control.

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*Primary purpose of
the Advanced
Research Workshop
held in Liberec, Czech
Republic, in
November 1995 was
to present and to
discuss the main
goals, contents,
projects, partners, and
implications of a
proposed non profit
European Research
Network, which aims*

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at establishing
research nodes at key
locations in European
NATO and CP
countries. In papers
and contributions,
individual and
common projects and
approaches were
introduced and
refined. All projects
are directed to
solutions for the
heavily polluted "Black

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*Triangle" Bohemia,
Saxony, and Silesia,
which was selected as
a nucleus for the
network because of its
geographical location
and cross border
environmental
problems. In several
presentations the
general strategy for
tackling these critical
problems were
outlined. A number of*

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*contributions offered
potential and model
solutions for individual
project parts, or new
project ideas and ap
proaches.*

*Incorporation of
heterogeneous
environmental
systems, computer
based environmental
planning,
contaminated site
assessment, and*

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*remediation
technology selection*
were discussed as
well as various
descriptions and
evaluations of
contamination
problems on industrial
and military areas in
connection with
proposals and
techniques for clean-
up and recultivation.
Examples for

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application of modern technologies in the conversion process were presented, e.g., recycling, incineration or supercritical oxidation. Further contributions considered the necessities for knowledge availability and transfer as well as the future challenge of preventing any

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*harmful influence on
the environment.*

*Offers up-to-date
technical information
on current and
potential pollution
control and waste
minimization
practices, providing
industry-specific case
studies, techniques
and models.*

*Unique problem-and-
solution approach for*

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Rao
*quickly mastering a
broad range of
calculations This
book's problem-and-
solution approach
enables readers to
quickly grasp the
fundamentals of air
pollution control
equipment and
essential applications.
Moreover, the author
sets forth solid
principles for the*

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design and selection
of air pollution control
equipment as well as
for its efficient
operation and
maintenance.

Readers gain a deep
understanding of both
the equipment itself
and the many factors
affecting performance.
Following two
introductory chapters,
the book dedicates

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four chapters to
examining control
equipment for
gaseous pollutants,
including adsorption,
absorption, and
incineration
equipment. The
remaining six chapters
deal with equipment
for managing airborne
particulate pollutants,
including gravity
settlers, cyclones,

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*electrostatic
precipitators,
scrubbers, and
baghouses. The
appendix contains
discussions of hybrid
systems, the SI
system (including
conversion constants),
and a cost-equipment
model. Each chapter
offers a short
introduction to the
control device*

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discussed. Next,
progressively more
difficult problems with
accompanying
solutions enable
readers to build their
knowledge as they
advance through the
chapter. Problems
reflect the most recent
developments in
pollution control and
include a variety of
performance

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Part 2

equations and operation and maintenance calculations. Each problem includes a statement of the problem, the data used to solve the problem, and a detailed solution. Readers may further hone their skills by visiting the text's Web site for additional

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problems and solutions. This
Engineering By Cs
Publication serves
*both as a textbook for
engineering students
and as a reference for
engineers and
technicians who need
to ensure that air
pollution control
equipment operates
efficiently and enables
their facility to meet all
air pollution control*

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*standards and
regulations.* Engineering By Cs

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Excellence and
Partnership
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