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This United Nations Environment
Programme (UNEP) guide is the

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first stage in the process of preparing advice for estate managers. It proposes a practical set of options for day-to-day work activities based on the best current experience. Intended for government officials, estate

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managers & industry leaders, the publication offers, among other things, environmental guidelines for new as well as existing industrial estates, the formulation of environmental policy & cleaner production & resource recovery.

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A comprehensive account of the state of the science of environmental mass transport Edited by Louis J. Thibodeaux and Donald Mackay, renowned experts in this field, the Handbook of Chemical Mass Transport in the

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Environment covers those processes which are critically important for assessing chemical fate, exposure, and risk. In a comprehensive and authoritative format, this unique handbook provides environmental chemists,

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geoscientists, engineers, and modelers with the essential capabilities to understand and quantify transport. In addition, it offers a one-stop resource on environmental mass transfer and mass transport coefficient

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estimation methods for all genres. The book begins by discussing mass transport fundamentals from an environmental perspective. It introduces the concept of mobility □ key to environmental fate, since transport must occur prior to any

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reaction or partitioning within the natural multimedia compartments. The fugacity approach to environmental mass transfer and the conventional approach are examined. This is followed by a description of the individual mass

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transport processes and the appropriate flux equations required for a quantitative expression. The editors have identified 41 individual processes believed to be the most environmentally significant, which form the basis for the remainder of

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the book Using a consistent format
for easy reference, each chapter:
Introduces the specific processes
Provides a detailed qualitative
description Presents key theoretical
mathematical formulations
Describes field or laboratory

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measurements of transport
parameters Gives data tables and
algorithms for numerical estimates
Offers a guide for users familiar
with the process who are seeking a
direct pathway to obtain the
numerical coefficients Presents

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computed example problems, case studies and/or exercises with worked-through solutions and answers The final chapter presents the editors' insight into future needs and emerging priorities. Accessible and relevant to a broad

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range of science and engineering users, this volume captures the state of the transport science and practice in this critical area.

Airborne Hazards Related to
Deployment
Department of the
Army

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Integrated Air Quality Management
Air Pollution
Conference Proceedings
Principles, Techniques, and
Applications
Handbook of Chemical Mass
Transport in the Environment

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Harbor Community Monitoring Study (HCMS) Saturation Monitoring

Aerosol Measurement:
Principles, Techniques, and
Applications Third Edition
is the most detailed
treatment available of the

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latest aerosol measurement methods. Drawing on the know-how of numerous expert contributors; it provides a solid grasp of measurement fundamentals and practices a wide variety of aerosol applications. This new

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edition is updated to address new and developing applications of aerosol measurement, including applications in environmental health, atmospheric science, climate change, air pollution,

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public health,
nanotechnology, particle and
powder technology,
pharmaceutical research and
development, clean room
technology (integrated
circuit manufacture), and
nuclear waste management.

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Magnetism is important in environmental studies for several reasons, the two most fundamental being that most substances exhibit some form of magnetic behavior, and that iron is one of the most common elements in the

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Earth's crust. Once sequestered in a suitable material, magnetic particles constitute a natural archive of conditions existing in former times. Magnetism provides a tracer of paleo-climatic and paleo-

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environmental conditions and processes. Environmental Magnetism details the occurrence and uses of magnetic materials in the natural environment. The first half of the volume describes the basic

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principles. The second half discusses the applications of magnetic measurements in various environmental settings on land, in lakes, in the ocean, and even various biological organisms. * Material is

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broadly applicable to
environmental studies * Case
histories illustrate key
points * Extensive
bibliography makes further
research quick and easy
Concepts in Clinical
Pharmacokinetics has helped

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thousands of students and practitioners through five editions by simplifying a complex subject. The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader's grasp of the material. This

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6th Edition offers a superior approach to understanding pharmacokinetics through extensive use of clinical correlates, figures, and questions and answers. Inside you will find:

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Content broken into 15 easy-to-follow lessons, perfect for a semester. Practice quizzes in 11 chapters to chart progress. Four chapters completely devoted to clinical cases. More information on hemodialysis

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More on pharmacogenetics
More on plasma concentration
versus time curve (AUC)
calculations A phenytoin
“cheat sheet” to help you
through the calculations
maze New vancomycin cases
based on higher desired

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vancomycin levels and trough-
only dose estimations More
on modified diet in renal
disease (MDRD) formula
versus Cockcroft-Gault (CG)
formula methods More theory
and problems on extended
interval aminoglycosides. -

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Pharmacokinetics has helped
thousands of students and
practitioners through five

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editions by simplifying a complex subject. The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader's grasp of the material. This 6th Edition offers a superior approach to

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on modified diet in renal disease (MDRD) formula versus Cockcroft-Gault (CG) formula methods More theory and problems on extended interval aminoglycosides. - See more at: <http://store.asph.org/Store/ProductListing/>

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Health and Environmental

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Impacts

Air Quality

Health and Social Impacts of
Biomass Gasification for
Household Energy in Rural
China

Airborne Particles and
Settled Dust

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Initial report. Part A
Rock Magnetism

More than 3.7 million U.S. service members have participated in operations taking place in the Southwest Asia Theater of Military Operations since 1990. These operations include the 1990-1991

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Persian Gulf War, a post-war stabilization period spanning 1992 through September 2001, and the campaigns undertaken in the wake of the September 11, 2001, attacks. Deployment to Iraq, Kuwait, Saudi Arabia, Bahrain, Gulf of Aden, Gulf of Oman, Oman, Qatar, the United Arab

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Emirates, and Afghanistan exposed service members to a number of airborne hazards, including oil-well fire smoke, emissions from open burn pits, dust and sand suspended in the air, and exhaust from diesel vehicles. The effects of these were compounded by stressors like

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excessive heat and noise that are inevitable attributes of service in a combat environment. Respiratory Health Effects of Airborne Hazards Exposures in the Southwest Asia Theater of Military Operations reviews the scientific evidence regarding respiratory health outcomes

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in veterans of the Southwest Asia conflicts and identifies research that could feasibly be conducted to address outstanding questions and generate answers, newly emerging technologies that could aid in these efforts, and organizations that the Veterans Administration might

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partner with to accomplish this work.
Contains also Annual report.

In this book, leading international experts explore the emerging concept of the zero energy mass custom home (ZEMCH) – designed to meet the need for social, economic, and environmental sustainability – and

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provide all of the knowledge required for the delivery of zero energy mass customized housing and community developments in developed and developing countries. The coverage is wide ranging, progressing from explanation of the meaning of sustainable development to discussion

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of challenges and trends in mass housing, the advantages and disadvantages of prefabricated methods of construction, and the concepts of mass customization, mass personalization, and inclusive design. A chapter on energy use will aid the reader in designing and retrofitting

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housing to reduce energy demand and/or improve energy end use efficiency. Passive design strategies and active technologies (especially solar) are thoroughly reviewed.

Application of the ZEMCH construction criteria to new buildings and refurbishment of old houses is

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explained and the methods and value of building performance simulation, analyzed. The concluding chapter presents examples of ZEMCH projects from around the world, with discussion of marketing strategy, design, quality assurance, and delivery challenges. The book will be

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invaluable as a training/teaching tool for both students and industry partners.

particulate matter (PM2.5 and PM10), ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide

The Environmental Management of
Industrial Estates

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Review of the Department of Defense
Enhanced Particulate Matter
Surveillance Program Report
Airborne Hazards Related to
Deployment
Fundamentals, Applications, and
Corroborative Analysis
Initial Reports of the Deep Sea Drilling

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Project

***This report is an outcome
from the Indian Ocean
Experiment (INDOEX), the
first comprehensive study,
carried out by the United
Nations Environment***

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***Protection Agency (UNEP),
on the South Asian haze and
the impact it has on climate.
The report documents the
South Asian brown haze as
observed by INDOEX and
considers its potential***

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***impacts on climate,
hydrological cycle,
agriculture, visibility and
human health. It also
illustrates the connection
and interaction between the
climatic effects of air***

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***pollution and global
warming, and calls for
arresting further
degradation of air quality in
Asia.***

***Covering the fundamentals
of air-borne particles and***

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settled dust in the indoor environment, this handy reference investigates: * relevant definitions and terminology, * characteristics, * sources, * sampling techniques and

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***instrumentation, * exposure
assessment, * monitoring
methods. The result is a
useful and comprehensive
overview for chemists,
physicists and biologists,
postgraduate students,***

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***medical practitioners,
occupational health
professionals, building
owners and managers,
building, construction and
air-conditioning engineers,
architects, environmental***

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lawyers, government and regulatory professionals. The main objective of these updated global guidelines is to offer health-based air quality guideline levels, expressed as long-term or

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***short-term concentrations
for six key air pollutants:
PM2.5, PM10, ozone,
nitrogen dioxide, sulfur
dioxide and carbon
monoxide. In addition, the
guidelines provide interim***

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targets to guide reduction efforts of these pollutants, as well as good practice statements for the management of certain types of PM (i.e., black carbon/elemental carbon,

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ultrafine particles, particles originating from sand and duststorms). These guidelines are not legally binding standards; however, they provide WHO Member States with an evidence-

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informed tool, which they can use to inform legislation and policy. Ultimately, the goal of these guidelines is to help reduce levels of air pollutants in order to decrease the enormous

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***health burden resulting from
the exposure to air pollution
worldwide.***

***Environmental Magnetism
Fundamentals of mold
growth in indoor
environments and strategies***

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for healthy living
Proceedings of the Ocean
Drilling Program
Asian Case Studies
Fundamentals of Air
Pollution 2e
Concepts in Clinical

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Pharmacokinetics

World Bank Technical Paper No. 378.

In the cities of Nepal's Kathmandu Valley, the main contributor of air pollution comes from the transport sector, followed by power plants, industrial units, and burning of

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garbage. Fuel quality and engine conditions significantly influence the level of air pollution. In response to this growing problem, the Urban Environment Management Committee was launched to assist local institutions in developing action plans that would

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be an integral part of their air quality management system. This report focuses on the development of the air quality management system and concludes with an action plan for air pollution abatement that takes into account the economic costs and

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benefits of abatement measures for the Kathmandu Valley.

Encyclopedia of Environmental Health, Second Edition presents the newest release in this fundamental reference that updates and broadens the umbrella of environmental

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health— especially social and environmental health—for its readers. There is ongoing revolution in governance, policies and intervention strategies aimed at evolving changes in health disparities, disease burden, trans-boundary transport and health

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hazards. This new edition reflects these realities, mapping new directions in the field that include how to minimize threats and develop new scientific paradigms that address emerging local, national and global environmental concerns. Represents a one-stop

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resource for scientifically reliable information on environmental health
Fills a critical gap, with information on one of the most rapidly growing scientific fields of our time Provides comparative approaches to environmental health practice and

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research in different countries and regions of the world Covers issues behind specific questions and describes the best available scientific methods for environmental risk assessment

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OVERSTOCK SALE -- Significantly reduced list price Developed from the Airborne Hazards Symposium held in Washington, DC, in August 2012, this book covers diagnosis and workup of symptomatic individuals, exposure characterization, current epidemiology,

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the potential role of pulmonary function testing (spirometry) in surveillance, strategic research planning, clinical follow-up and registries, risk communication, etc. Symposium presentations were delivered by a diverse group of

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scientific experts and contain valuable veteran perspectives. This book represents a compendium of what is currently known regarding the potential long-term health consequences of exposure to airborne hazards during Operation Enduring

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Freedom, Operation Iraqi Freedom, and Operation New Dawn deployments. Airborne Hazards Related to Deployment presents a balanced, comprehensive approach to furthering the understanding of airborne hazards during deployments

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and other military operations,
ultimately improving airborne hazard
prevention, protection, and avoidance
while improving healthcare and
minimizing adverse health outcomes of
our service members and veterans.

Environanotechnology

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Journal of the Air & Waste
Management Association
Pollution Equipment News
Measurement and Modeling
WHO global air quality guidelines
ZEMCH: Toward the Delivery of Zero
Energy Mass Custom Homes

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Developed from the Airborne Hazards Symposium held in Washington, DC, in August 2012, this book covers diagnosis and workup of symptomatic individuals, exposure characterization,

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current epidemiology, the potential role of pulmonary function testing (spirometry) in surveillance, strategic research planning, clinical follow-up and registries, risk communication, etc.

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Symposium presentations were delivered by a diverse group of scientific experts and contain valuable veteran perspectives. This book represents a compendium of what is currently known

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regarding the potential long-term health consequences of exposure to airborne hazards during Operation Enduring Freedom, Operation Iraqi Freedom, and Operation New Dawn deployments. Airborne

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***Hazards Related to
Deployment presents a
balanced, comprehensive
approach to furthering the
understanding of airborne
hazards during deployments
and other military operations,***

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ultimately improving airborne hazard prevention, protection, and avoidance while improving healthcare and minimizing adverse health outcomes of our service members and veterans.

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Today, indoor mold and moisture, and their associated health effects, are a society-wide problem. The economic consequences of indoor mold and moisture are enormous. Their global dimension has

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been emphasized in several recent international publications, stressing that the most important means for avoiding adverse health effects is the prevention (or minimization) of persistent

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dampness and microbial growth on interior surfaces and in building structures. This book aims to describe the fundamentals of indoor mold growth as a prerequisite to tackle mold growth in the

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existing building stock as well as in future energy efficient buildings. It brings together different disciplinary points of view on indoor mold, ranging from physics and material science to microbiology and

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health sciences. The contents have been outlined according to three main issues: Fundamentals, particularly addressing the crucial roles of water and materials, Health, including a state-of-the-art

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description of the health-related effects of indoor molds, and Strategies, integrating remediation, prevention and policies. This book is a comprehensive treatment of fine particle

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magnetism and the magnetic properties of rocks. Starting from atomic magnetism and magnetostatic principles, the authors explain why domains and micromagnetic structures form in ferromagnetic crystals

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and how these lead to magnetic memory in the form of thermal, chemical and other remanent magnetizations. This book will be of value to graduate students and researchers in geophysics and

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geology, particularly in paleomagnetism and rock magnetism, as well as physicists and electrical engineers interested in fine-particle magnetism and magnetic recording.

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***Assessment from Three
Perspectives and Emergent
Insights from Their Synthesis
Aerosol Measurement
Indoor Environment
Density Estimation for
Statistics and Data Analysis***

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Chemical Modeling for Air Resources

Climate and Other Environmental Impacts

Understanding and utilizing the interactions between environment and nanoscale materials is a new way to

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resolve the increasingly challenging environmental issues we are facing and will continue to face.

Environanotechnology is the nanoscale technology developed for monitoring the quality of the environment, treating water and wastewater, as well as controlling air pollutants. Therefore,

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the applications of nanotechnology in environmental engineering have been of great interest to many fields and consequently a fair amount of research on the use of nanoscale materials for dealing with environmental issues has been conducted. The aim of this book is to report on the results recently

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achieved in different countries. It provides useful technological information for environmental scientists and will assist them in creating cost-effective nanotechnologies to solve critical environmental problems, including those associated with energy production. Presents research results

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from a number of countries with various nanotechnologies in multidisciplinary environmental engineering fields Gives a solid introduction to the basic theories needed for understanding how environanotechnologies can be developed cost-effectively, and when

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they should be applied in a responsible manner Includes worked examples that put environmental problems in context to show the actual connections between nanotechnology and environmental engineering

The steady growth in the number of vehicles on the road, heavy reliance on

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coal, use of dirty fuels for residential combustion, and extensive open burning are some of the major factors leading to the progressive deterioration of air quality in developing countries in Asia. And despite efforts to establish and implement air quality measurement systems, the development of

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infrastructure, environmental technology, and management practices continues to lag behind the rate of emission increase. Based on ten years of coordinated research, Integrated Air Quality Management: Asian Case Studies discusses technical and policy tools for the integrated air quality

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management of developing countries in Asia. The book begins with an overview of major issues of air quality management practices in developing Asia and potential approaches to reduce pollution, including opportunities for integration of air quality improvement and climate migration strategies. It

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covers the methodology and results of fine particulate matter monitoring using traditional filter-based and satellite monitoring techniques. It examines the applications of a 3D dispersion modeling tool for urban and regional air quality management focusing on surface ozone, fine particulate matter,

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and acid deposition. The final chapters discuss innovative control technologies for gaseous air pollutants and illustrate the integrated air quality management in developing Asia through case studies for target source categories including agricultural residue field burning, vehicle emissions, brick kilns, and

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industrial VOC emission. Illustrated with case studies, this book presents an integrated air quality management methodology that employs technical and policy tools to achieve air quality goals. It includes technical information and policy recommendations based on the outcomes of several multi-year air

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quality research programs coordinated by the Asian Institute of Technology. The text combines fundamental information and advanced knowledge useful to large audiences dealing with subjects of integrated air quality management.

In the effort to reduce the scientific and

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technical uncertainties over regulation of airborne particulate matter in the United States, Research Priorities for Airborne Particulate Matter: II. Evaluating Research Progress and Updating the Portfolio, the second book in a four-part series requested by Congress, describes the plans of the

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committee to monitor the progress of the research on particulate matter conducted by the U.S. Environmental Protection Agency (EPA), other federal and state government agencies, and nongovernmental organizations. The book also reviews and updates the committee's portfolio of recommended

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research in its first volume, Research Priorities for Airborne Particulate Matter: I. Immediate Priorities and a Long-Range Research Portfolio (NRC, 1998). The committee substantially revised two of the ten high-priority research areas recommended in Part I. Part II notes that Congress, EPA, and

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the scientific community have given strong support to the committee's recommendations and have implemented substantial changes in research efforts in response to Part I of the series. One important research area—studies of the effects of long-term exposure to particulate matter and

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other major air pollutants-however, does not appear to be underway or planned.

EM

Collected Reprints - Woods Hole Oceanographic Institution

The sciences and engineering. B
Monitoring of Particulate Matter in

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Ambient Air Around Waste Facilities
Respiratory Health Effects of Airborne
Hazards Exposures in the Southwest
Asia Theater of Military Operations
Jakarta report

Although there has been a surge of
interest in density estimation in
recent years, much of the published

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research has been concerned with purely technical matters with insufficient emphasis given to the technique's practical value.

Furthermore, the subject has been rather inaccessible to the general statistician. The account presented

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in this book places emphasis on topics of methodological importance, in the hope that this will facilitate broader practical application of density estimation and also encourage research into relevant theoretical work. The book

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also provides an introduction to the subject for those with general interests in statistics. The important role of density estimation as a graphical technique is reflected by the inclusion of more than 50 graphs and figures throughout the

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text. Several contexts in which density estimation can be used are discussed, including the exploration and presentation of data, nonparametric discriminant analysis, cluster analysis, simulation and the bootstrap, bump

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hunting, projection pursuit, and the estimation of hazard rates and other quantities that depend on the density. This book includes general survey of methods available for density estimation. The Kernel method, both for univariate and

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multivariate data, is discussed in detail, with particular emphasis on ways of deciding how much to smooth and on computation aspects. Attention is also given to adaptive methods, which smooth to a greater degree in the tails of the

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distribution, and to methods based on the idea of penalized likelihood.

Chemical Modeling for Air

Resources describes fundamental topics in chemical modeling and its scientific and regulatory applications in air pollution

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problems, such as ozone hole, acid rain, climate change, particulate matter, and other air toxins. A number of corroborative analysis methods are described to help extract information from model data. With many examples,

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Chemical Modeling for Air
Resources may serve as a textbook
for graduate students and reference
for professionals in fields of
atmospheric science,
environmental science and
engineering. Presents atmospheric

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chemical modeling from both scientific and regulatory perspectives Includes a range of topics for each pollutant, including the science of how it forms, its health effects, the regulatory context, and modeling A succinct

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overview for air quality regulators
and industry consultants interested
in the most widely used modeling
software

Soldiers deployed during the 1991
Persian Gulf War were exposed to
high concentrations of particulate

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matter (PM) and other airborne pollutants. Their exposures were largely the result of daily windblown dust, dust storms, and smoke from oil fires. On returning from deployment, many veterans complained of persistent respiratory

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symptoms. With the renewed activity in the Middle East over the last few years, deployed military personnel are again exposed to dust storms and daily windblown dust in addition to other types of PM, such as diesel exhaust and

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particles from open-pit burning. On the basis of the high concentrations observed and concerns about the potential health effects, DOD designed and implemented a study to characterize and quantify the PM in the ambient environment at 15

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sites in the Middle East. The endeavor is known as the DOD Enhanced Particulate Matter Surveillance Program (EPMSP). The U.S. Army asked the National Research Council to review the EPMSP report. In response, the

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present evaluation considers the potential acute and chronic health implications on the basis of information presented in the report. It also considers epidemiologic and health-surveillance data collected by the USACHPPM, to assess

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potential health implications for
deployed personnel, and
recommends methods for reducing
or characterizing health risks.
International Conference on Air
Pollution from Agricultural
Operations

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II. Evaluating Research Progress
and Updating the Portfolio
Encyclopedia of Environmental
Health
Sixth Edition
Fundamentals and Frontiers
Dissertation Abstracts International

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Air pollution is recognized as one of the leading contributors to the global environmental burden of disease, even in countries with relatively low concentrations of air pollution. Air Pollution: Health and Environmental Impacts examines the effect of this complex problem on human health and

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the environment in different settings around the world. I

Fundamentals of Air Pollution, Second Edition discusses the basic chemistry, physics, and engineering of air pollution. This edition explores the processes and equipment that produce less pollution in the atmosphere. This book is comprised

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of six parts encompassing 28 chapters. This text starts with an overview of the predominant air pollution problems during the Industrial Revolution, including smoke and ash produced by burning oil or coal in the boiler furnaces of power plants, marine vessels, and locomotives. This edition then explores

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the mathematical models of atmospheric transport and diffusion and discusses the air pollution control in communities. Other chapters deal with atmospheric chemistry, control technology, and visibility through the atmosphere. This book further examines the regulatory concepts that have become more

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significant, such as the bubble concept, air quality, emission standards, and the trading and banking of emission rights. Air pollution scientists, atmospheric scientists, ecologists, engineers, educators, researchers, and students will find this book extremely useful. Addressing the matter of air quality in a

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collection of focused scientific topic chapters is timely as a contribution to the international discussion and challenges of global warming and climate change. This book engages with the debate by considering some of the social, public health, economic and scientific issues that relate to the contribution made by

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airborne pollutants to the observable trending variances in weather, climate and atmospheric conditions. From a wide range of submissions for inclusion in the book, there are seven carefully selected chapters that individually relate to air sampling and analysis: the monitoring, measurement and modelling of air

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quality. The authors come from a range of academic and scientific disciplines, and each is internationally credited in his/her field. This book will appeal to scholars, to students and generally to those interested in the following contemporary thought in the matter of environment pollution, air quality and

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the issues of climate and atmosphere the world is facing today.

Research Priorities for Airborne
Particulate Matter

Principles and Applications of
Enviromagnetics

Urban Air Quality Management Strategy
in Asia

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Commerce Business Daily
The Asian Brown Cloud