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Sea Salt Aerosol Production - Ernie R. Lewis
2004-01-09
Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 152. Sea salt aerosol (SSA) exerts a major influence over a broad reach of geophysics. It is important to the physics and chemistry of the marine atmosphere and to

marine geochemistry and biogeochemistry generally. It affects visibility, remote sensing, atmospheric chemistry, and air quality. Sea salt aerosol particles interact with other atmospheric gaseous and aerosol constituents by acting as sinks for condensable gases and suppressing new particle formation, thus influencing the size distribution of these other aerosols and more

broadly influencing the geochemical cycles of substances with which they interact. As the key aerosol constituent over much of Earth's surface at present, and all the more so in pre-industrial times, SSA is central to description of Earth's aerosol burden.

Aerosol Measurement - Pramod Kulkarni
2011-09-09

Aerosol Measurement: Principles, Techniques, and Applications Third Edition is the most detailed treatment available of the 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 edition is updated to address new and developing applications of aerosol measurement, including applications in environmental health, atmospheric science, climate change, air pollution, public health, nanotechnology, particle and powder technology, pharmaceutical research and development, clean room technology

(integrated circuit manufacture), and nuclear waste management.

Fibrous Filter Media - Philip Brown 2017-06-16
Fibrous Filter Media comprehensively covers the types, manufacture, applications, performance, and modeling of fibrous filter media. Part I introduces the principles of gas and liquid filtration, while Part II presents an overview of the types of fibrous filters, including details of fiber types, fabric construction, and applications. Part III covers a variety of filtration applications in which fibrous assemblies are used, with examples ranging from filtration for improving air quality, to medical filters, to industrial wastewater filtration. Finally, Part III covers the properties and performance of fibrous filters, including chapters on filter performance and simulation. With its expert editors and international team of contributors, this important book provides information on fibrous filters relevant to fiber and textile scientists, and is also ideal for academics and industry professionals

working in the field of filtration. Dr. Philip Brown is Sweetenburgh Professor of polymer and textile engineering at Clemson University, USA. Dr. Christopher Cox is Professor of mathematical sciences at Clemson University, USA. Systematic and comprehensive coverage of the trends and new technologies being developed in the field of fibrous filter media Focused on the needs of the textiles and filtration industries, with a clear emphasis on applied technology Contains contributions from an international team of authors edited by an expert in the field

Aerosol Technology - William C. Hinds
1999-01-19

The #1 guide to aerosol science and technology - now better than ever Since 1982, *Aerosol Technology* has been the text of choice among students and professionals who need to acquire a thorough working knowledge of modern aerosol theory and applications. Now revised to reflect the considerable advances that have been made over the past seventeen years across a broad

spectrum of aerosol-related application areas - from occupational hygiene and biomedical technology to microelectronics and pollution control -this new edition includes: * A chapter on bioaerosols * New sections on resuspension, transport losses, respiratory deposition models, and fractal characterization of particles * Expanded coverage of atmospheric aerosols, including background aerosols and urban aerosols * A section on the impact of aerosols on global warming and ozone depletion. *Aerosol Technology, Second Edition* also features dozens of new, fully worked examples drawn from a wide range of industrial and research settings, plus new chapter-end practice problems to help readers master the material quickly.

Air Quality Monitoring, Assessment and Management - Nicolas Mazzeo 2011-07-08

Human beings need to breathe oxygen diluted in certain quantity of inert gas for living. In the atmosphere, there is a gas mixture of, mainly, oxygen and nitrogen, in appropriate proportions.

However, the air also contains other gases, vapours and aerosols that humans incorporate when breathing and whose composition and concentration vary spatially. Some of these are physiologically inert. Air pollution has become a problem of major concern in the last few decades as it has caused negative effects on human health, nature and properties. This book presents the results of research studies carried out by international researchers in seventeen chapters which can be grouped into two main sections: a) air quality monitoring and b) air quality assessment and management, and serves as a source of material for all those involved in the field, whether as a student, scientific researcher, industrialist, consultant, or government agency with responsibility in this area.

Aerosol Sampling - James H. Vincent
2007-04-04

This book provides a comprehensive account of the important field of aerosol sampling as it is applied to the measurement of aerosols that are

ubiquitous in occupational and living environments, both indoor and outdoor. It is written in four parts: Part A contains 9 chapters that describe the current knowledge of the physical science that underpins the process of aerosol sampling. Part B contains 4 chapters, which present the basis of standards for aerosols, including the link with human exposure by inhalation. Part C contains 7 chapters that cover the development of practical aerosol sampling instrumentation, and how technical designs and methods have evolved over the years in order that aerosol sampling may be carried out in a manner matching the health-related and other criteria that have been proposed as parts of standards. Finally Part D contains 6 chapters that describe how a wide range of aerosol sampling instruments have performed when they have been applied in the field in both occupational and ambient atmospheric environments, including how different instruments, nominally intended to measure the same aerosol fraction, compare

when used side-by-side in the real world. The book draws together all that is known about aerosol sampling, for the benefit of researchers and practitioners in occupational and environmental health and all other fields of science and engineering where aerosols are of interest.

Air Pollution and Health - Jon Ayres

2006-09-15

This invaluable volume, the third in the series Air Pollution Reviews, addresses particular questions relating to air pollution and its effect on health. It deals with the impact of nasal disease on lung exposure, how pollutants are distributed within the lung, and the uncertainties with regard to defining the dose to the lung. It takes a tangential look at the lung dose by exploring the possibility of obtaining clues from occupational medicine. Toxicologically, the book examines the possible methodology for exploring how particles and their toxicity can be investigated, and looks into the cardio-toxic effects of air pollution. The

effects of pollutant mixtures are compared with those of individual pollutants. In addition, the question of the importance of acid aerosols is tackled. Epidemiologically, the book deals with the problems associated with point sources as opposed to diffuse sources of air pollution, and considers whether the health effects of air pollution can be adequately quantified. These areas, though difficult, need to be addressed, in order to develop our knowledge of the health effects of air pollution. In this volume, a strong panel of authors treat the issues. They have raised questions but at the same time succeeded in solving a number of problems. Contents: The Role of the Nose in Health and Disease (R Eccles)Cardiovascular Effects of Particles (H C Routledge & J G Ayres)Point Sources of Air Pollution — Investigation of Possible Health Effects Using Small Area Methods (P Elliott)Characterisation of Airborne Particulate Matter and Related Mechanisms of Toxicity: An Experimental Approach (K Bérubé et al.)Acid

Aerosols as a Health Hazard (L C Chen et al.)
Testing New Particles (K Donaldson et al.)
Valuing the Health Impact of Air Pollution: Deaths, DALYs or Dollars? (A E M de Hollander & J M Melse)
Readership: Government bodies, environmentalists, scientists in the field of air pollution, undergraduate and graduate students.

Handbook of Nonwovens - S. J. Russell
2022-06-03

Handbook of Nonwovens, Second Edition updates and expands its popular interdisciplinary treatment of the properties, processing, and applications of nonwovens. Initial chapters review the development of the industry and the different classes of nonwoven material. The book then discusses methods of manufacture such as dry-laid, wet-laid, and polymer-laid web formation. Other techniques analyzed include mechanical, thermal, and chemical bonding, as well as chemical and mechanical finishing systems. The book concludes by assessing the characterization, testing, and modeling of

nonwoven materials. Covering an unmatched range of materials with a variety of compositions and manufacturing routes, this remains the indispensable reference to nonwovens for designers, engineers, materials scientists, and researchers, particularly those interested in the manufacturing of automotive, aerospace, and medical products. Nonwovens are a unique class of textile material formed from fibers that are bonded together through various means to form a coherent structure. The range of properties they can embody make them an important part of a range of innovative products and solutions, which continues to attract interest from industry as well as academia. Describes in detail the manufacturing processes of a range of nonwoven materials Provides detailed coverage of the mechanical and thermal properties of non-woven fabrics Includes extensive updates throughout on the characterization and testing of nonwovens Explains how to model nonwoven structures
Environmental Health - Michael A. McGeehin

2001

Particulate Products - Henk G. Merkus
2013-11-19

Particulate products make up around 80% of chemical products, from all industry sectors. Examples given in this book include the construction materials, fine ceramics and concrete; the delicacies, chocolate and ice cream; pharmaceutical, powders, medical inhalers and sun screen; liquid and powder paints. Size distribution and the shape of the particles provide for different functionalities in these products. Some functions are general, others specific. General functions are powder flow and require - at the typical particulate concentrations of these products - that the particles cause adequate rheological behavior during processing and/or for product performance. Therefore, this book addresses particle packing as well as its relation to powder flow and rheological behavior. Moreover, general

relationships to particle size are discussed for e.g. color and sensorial aspects of particulate products. Product-specific functionalities are often relevant for comparable product groups. Particle size distribution and shape provide, for example, the following functionalities: - dense particle packing in relation to sufficient strength is required in concrete construction, ceramic objects and pharmaceutical tablets - good sensorial properties (mouthfeel) to chocolate and ice cream - effective dissolution, flow and compression properties for pharmaceutical powders - adequate hiding power and effective coloring of paints for protection and the desired esthetical appeal of the objects - adequate protection of our body against sun light by sunscreen - effective particle transport and deposition to desired locations for medical inhalers and powder paints. Adequate particle size distribution, shape and porosity of particulate products have to be achieved in order to reach optimum product performance. This

requires adequate management of design and development as well as sufficient knowledge of the underlying principles of physics and chemistry. Moreover, flammability, explosivity and other health hazards from powders, during handling, are taken into account. This is necessary, since great risks may be involved. In all aspects, the most relevant parameters of the size distribution (and particle shape) have to be selected. In this book, experts in the different product fields have contributed to the product chapters. This provides optimum information on what particulate aspects are most relevant for behavior and performance within specified industrial products and how optimum results can be obtained. It differs from other books in the way that the critical aspects of different products are reported, so that similarities and differences can be identified. We trust that this approach will lead to improved optimization in design, development and quality of many particulate products.

Environmental Health Perspectives - 2002

Evaporation and Droplet Growth in Gaseous Media - N. A. Fuks 1959

Aerosol Science - Ian Colbeck 2014-01-30
Aerosols influence many areas of our daily life. They are at the core of environmental problems such as global warming, photochemical smog and poor air quality. They can also have diverse effects on human health, where exposure occurs in both outdoor and indoor environments. However, aerosols can have beneficial effects too; the delivery of drugs to the lungs, the delivery of fuels for combustion and the production of nanomaterials all rely on aerosols. Advances in particle measurement technologies have made it possible to take advantage of rapid changes in both particle size and concentration. Likewise, aerosols can now be produced in a controlled fashion. Reviewing many technological applications together with the current scientific

status of aerosol modelling and measurements, this book includes: • Satellite aerosol remote sensing • The effects of aerosols on climate change • Air pollution and health • Pharmaceutical aerosols and pulmonary drug delivery • Bioaerosols and hospital infections • Particle emissions from vehicles • The safety of emerging nanomaterials • Radioactive aerosols: tracers of atmospheric processes With the importance of this topic brought to the public's attention after the eruption of the Icelandic volcano Eyjafjallajökull, this book provides a timely, concise and accessible overview of the many facets of aerosol science.

Inhalation Studies - Robert F. Phalen

2008-10-22

This significantly updated and expanded new edition presents the scientific foundations of inhalation research essential to the design and conduct of toxicologic studies. It incorporates the major advances that have been made in the field, including recent advances in biology and the

rapidly increasing global concerns and studies on particulate air pollution. The Second Edition was motivated by: new developments in the ultrafine particle health effects and concentrated aerosol research advances in understanding postnatal lung growth and the deposition and clearance of inhaled particles new techniques in toxicity testing the explosion of knowledge in the genetic and molecular realms the introduction of a large number of transgenic animal models updated ethical guidelines for animal testing the emergence of aerosol medicine the growing threat of aerosol-related terrorism increased appreciation of nonpulmonary effects of inhaled substances use of medical scanning techniques to study respiratory tract structure the introduction of new inhalation exposure systems the emergence of aerosol concentrators for use in air pollution studies

[Air Pollution](#) - Bhola R. Gurjar 2010-06-22

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 the environment in different settings around the world. |

Gas Phase Nanoparticle Synthesis - Claes Granqvist 2013-06-05

This book deals with gas-phase nanoparticle synthesis and is intended for researchers and research students in nanomaterials science and engineering, condensed matter physics and chemistry, and aerosol science. Gas-phase nanoparticle synthesis is instrumental to nanotechnology—a field in current focus that raises hopes for environmentally benign, resource-lean manufacturing. Nanoparticles can be produced by many physical, chemical, and even biological routes. Gas-phase synthesis is particularly interesting since one can achieve accurate manufacturing control and hence industrial viability. Nanotechnology is popular

today. However, basic scientific aspects of the relevant, underlying processes have not received sufficient attention. This book fills the gap in the current literature by addressing certain fundamentals of gas-phase nanoparticle synthesis. Chapters cover topics such as forces within and dynamics of nanoparticle systems, gas evaporation and deposition, laser assisted nanoparticle synthesis, and nanoparticle fabrication via flame processes. A chapter on in-situ structural studies of nanoparticles undergoing growth complements the exposition. Biomedical Research and the Environment - John T. Grupenhoff 2000

Nanotechnology - Bhaskar Mazumder 2019-03-18
Today we find the applications of nanotechnology in all spheres of life. Nanotechnology: Therapeutic, Nutraceutical and Cosmetic Advances discusses recent advances in the field, particularly with therapeutics, nutraceuticals and cosmetic sciences. Therapeutics is an area which

has perhaps benefitted the most, although nanoscience and technology have quietly entered the realms of food science and are playing pivotal roles in the efficient utilization of nutraceuticals. Finally, even before therapeutics came cosmetics and companies started marketing unique products embedding the beneficial and advanced properties enabled by the use of nanostructures. This book highlights trends and applications of this wonderful new technology.

Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials - Management Association, Information Resources 2021-03-19

The use of nanotechnologies continues to grow, as nanomaterials have proven their versatility and use in many different fields and industries within the scientific profession. Using nanotechnology, materials can be made lighter, more durable, more reactive, and more efficient leading nanoscale materials to enhance many

everyday products and processes. With many different sizes, shapes, and internal structures, the applications are endless. These uses range from pharmaceuticals to materials such as cement or cloth, electronics, environmental sustainability, and more. Therefore, there has been a recent surge of research focused on the synthesis and characterizations of these nanomaterials to better understand how they can be used, their applications, and the many different types. The Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials seeks to address not only how nanomaterials are created, used, or characterized, but also to apply this knowledge to the multidimensional industries, fields, and applications of nanomaterials and nanoscience. This includes topics such as both natural and manmade nanomaterials; the size, shape, reactivity, and other essential characteristics of nanomaterials; challenges and potential effects of using nanomaterials; and the advantages of

nanomaterials with multidisciplinary uses. This book is ideally designed for researchers, engineers, practitioners, industrialists, educators, strategists, policymakers, scientists, and students working in fields that include materials engineering, engineering science, nanotechnology, biotechnology, microbiology, drug design and delivery, medicine, and more.

Secondhand Smoke Exposure and Cardiovascular Effects - Institute of Medicine 2010-02-21

Data suggest that exposure to secondhand smoke can result in heart disease in nonsmoking adults. Recently, progress has been made in reducing involuntary exposure to secondhand smoke through legislation banning smoking in workplaces, restaurants, and other public places. The effect of legislation to ban smoking and its effects on the cardiovascular health of nonsmoking adults, however, remains a question. *Secondhand Smoke Exposure and Cardiovascular Effects* reviews available scientific literature to assess the relationship between secondhand

smoke exposure and acute coronary events. The authors, experts in secondhand smoke exposure and toxicology, clinical cardiology, epidemiology, and statistics, find that there is about a 25 to 30 percent increase in the risk of coronary heart disease from exposure to secondhand smoke. Their findings agree with the 2006 Surgeon General's Report conclusion that there are increased risks of coronary heart disease morbidity and mortality among men and women exposed to secondhand smoke. However, the authors note that the evidence for determining the magnitude of the relationship between chronic secondhand smoke exposure and coronary heart disease is not very strong. Public health professionals will rely upon *Secondhand Smoke Exposure and Cardiovascular Effects* for its survey of critical epidemiological studies on the effects of smoking bans and evidence of links between secondhand smoke exposure and cardiovascular events, as well as its findings and recommendations.

A Framework for Assessing the Health Hazard Posed by Bioaerosols - National Research Council 2008-11-30

Biological warfare agent (BWA) detectors are designed to provide alerts to military personnel of the presence of dangerous biological agents. Detecting such agents promptly makes it possible to minimize contamination and personnel exposure and initiate early treatment. It is also important, though, that detectors not raise an alarm when the situation does not warrant it. The question considered in this book is whether Agent-Containing Particles per Liter of Air (ACPLA) is an appropriate unit of measure for use in the evaluation of aerosol detectors and whether a better, alternative measure can be developed. The book finds that ACPLA alone cannot determine whether a health threat exists. In order to be useful and comparable across all biological agents and detection systems, measurements must ultimately be related to health hazard. A Framework for Assessing the

Health Hazard Posed by Bioaerosols outlines the possibility of a more complex, but more useful measurement framework that makes it possible to evaluate relative hazard by including agent identity and activity, particle size, and infectious dose.

Inhaled Environmental/occupational Irritants and Allergens - Donovan B. Yeates 2001

Aerosols - Igor Agranovski 2011-05-16
This self-contained handbook and ready reference examines aerosol science and technology in depth, providing a detailed insight into this progressive field. As such, it covers fundamental concepts, experimental methods, and a wide variety of applications, ranging from aerosol filtration to biological aerosols, and from the synthesis of carbon nanotubes to aerosol reactors. Written by a host of internationally renowned experts in the field, this is an essential resource for chemists and engineers in the

chemical and materials disciplines across multiple industries, as well as ideal supplementary reading in graduate level courses.

Environmental Chemistry of Aerosols - Ian Colbeck 2008-03-24

Covering the most recent material, this text brings together all the information on atmospheric aerosols in one place, making it easily accessible to practitioners and students.

Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report - National Research Council 2010-07-23

Soldiers deployed during the 1991 Persian Gulf War were exposed to high concentrations of particulate 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 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 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 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 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 potential health implications for deployed personnel, and recommends methods for reducing or characterizing health risks.

Atmospheric Aerosols - Claudio Tomasi 2017-03-20

The book describes the morphological, physical and chemical properties of aerosols from various natural and anthropogenic sources to help the reader better understand the direct role of aerosol particles in scattering and absorbing short- and long-wave radiation.

Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2017-01-11

The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. *Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications* is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and

extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

Inhalation Aerosols - Anthony J. Hickey 2019-03-21

Inhalation aerosols continue to be the basis for successful lung therapy for several diseases, with therapeutic strategies and the range of technology significantly evolving in recent years. In response, this third edition takes a new approach to reflect the close integration of technology with its application. After briefly presenting the general considerations that apply to aerosol inhalation, the central section of the book uses the focus on disease and therapeutic agents to illustrate the application of specific technologies. The final integrated strategies

section draws the major points from the applications for disease targets and drug products.

Air Pollution and Greenhouse Gases - Zhongchao Tan 2014-11-03

This textbook discusses engineering principles relating to air pollution and greenhouse gases (GHGs); it focuses on engineering principles and designs of related devices and equipment for air emission control for a variety of industries such as energy, chemical, and transportation industries. The book aims primarily at senior undergraduate and graduate students in mechanical, chemical and/or environmental engineering departments; it can also be used as a reference book by technical staff and design engineers who are interested in and need to have technical knowledge in air pollution and GHGs. The book is motivated by recent rapid advances in air pollution and greenhouse gas emissions and their control technologies. In addition to classic topics related to air pollution,

this book is also featured with emerging topics related to air pollution and GHGs. It covers recent advances in engineering approaches to the reduction of GHG emissions including, but are not limited to, green energy technologies and carbon sequestration and storage. It also introduces an emerging topic in air pollution, which is referred to as Nano Air Pollution. It is a growing concern in air pollution, but largely missing in similar books, likely because of recent rapid advances in nanotechnology has outpaced the advances in nano air pollution control.

Advanced Research on Nanotechnology for Civil Engineering Applications - Khitab, Anwar 2016-05-16

A recent initiative within the civil engineering field is the use of nanotechnology and materials within the construction industry. While there has been great success in the adoption of various nanomaterials, there is still room for development and improvement. Advanced Research on Nanotechnology for Civil

Engineering Applications highlights emergent research and theoretical concepts in the implementation of nanotechnology within the construction, geotechnical, and transportation engineering fields. Examining the application of nanomaterials, current trends within the topic area, and the potential health impacts of material usage on the environment, this book is a pivotal reference for professionals, engineers, students, and researchers.

Pharmaceutical Process Engineering, Second Edition - Anthony J. Hickey 2016-03-09

With step-by-step methods of drug production and knowledge of major unit operations and key concepts of pharmaceutical engineering, this guide will help to improve communication among the varied professionals working in the pharmaceutical industry. Key features: REVISION OF A BESTSELLER - Updates include recent advances in the field to keep pharmaceutical scientists and technologists up-to-date IDEAL INTRODUCTORY TEXT - Covers basic engineering

principles, drug production, and development processes, so scientists can easily convert bulk pharmaceutical products into patient-ready dosage forms NEW INFORMATION - on quality principles that include quality by design; mathematical and statistical approaches to experimental design; computer aided design; and PAT (process analytical technology) keeps professionals at the forefront of their field COMPREHENSIVE COVERAGE - Step-by-step methods of drug production, knowledge of major unit operations, and key concepts of pharmaceutical engineering will help to improve communication among the varied professionals working in the pharmaceutical industry *Nuclear Safety in Light Water Reactors* - Bal Raj Sehgal 2012-01-05

La 4e de couverture indique : Organizes and presents all the latest thought on LWR nuclear safety in one consolidated volume, provided by the top experts in the field, ensuring high-quality, credible and easily accessible information.

Aerosols Handbook - Lev S. Ruzer 2004-12-28
As more attention is dedicated to understanding the occupational health risks associated with the industrial manufacture and use of nanotechnology, *Aerosols Handbook: Measurement, Dosimetry, and Health Effects* is a timely presentation of time-tested research in the field of aerosol science. The book covers a multitude of topics in indoor, outdoor, Pharmaceutical Inhalation Aerosol Technology, Second Edition - Anthony J. Hickey 2003-09-03
This thoroughly revised and expanded reference provides authoritative discussions on the physiologic, pharmacologic, metabolic, molecular, cellular and physicochemical factors, influencing the efficacy and utilization of pharmaceutical aerosol. It analyzes the latest science and developments in the generation, administration and characterization of these compounds, showcasing current clinical applications, the efficiency and limitations of major aerosol products and emerging aerosol

therapies impacting the field.
A Biologic Approach to Environmental Assessment and Epidemiology - Thomas J. Smith 2010-06-24
In this book, Thomas J. Smith and David Kriebel assert that important advances in the quantification of environmental risks can only come through a true synthesis of the fields of environmental epidemiology and exposure assessment. They have built a common biologic model of exposure, physiologic response, and disease, a synthesis of the various existing models which serves to both simplify and improve the application of environmental epidemiology and exposure assessment to current and future environmental chemical risks.
Introduction to Aerosol Science - Parker C. Reist 1984

Principles of Environmental Physics - John Monteith 1990-02-15
Thoroughly revised and up-dated edition of a

highly successful textbook.

Evaluating the Effectiveness of Smoke-free Policies - IARC Working Group on Evaluating the Effectiveness of Smoke-free Policies 2009

Presents the evidence on the effectiveness of measures enforced at the societal level to eliminate tobacco smoking and tobacco smoke from the environments where exposure takes place. This volume offers a critical review of the evidence on the economic effects and health benefits of smoke-free legislation and the adoption of voluntary smoke-free policies in households.

Atmospheric Pollution - Mark Z. Jacobson
2002-09-05

Publisher Description

Air Pollution Sources, Statistics and Health Effects - Michael Evan Goodsite 2020-10-10

This volume of the Encyclopedia of Sustainability Science and Technology, Second Edition, provides a broad and comprehensive view of air pollution, extending from key urban sources and

processes through the regional scale to the global, with close attention given to key sources such as road and air transportation. Adverse effects on human health have been the main driver of scientific research on the emission, atmospheric behavior, and health effects of toxic pollutants referred to as “locally acting” pollutants. Strict air quality guidelines and standards, including limit values, have been adopted in most countries in order to limit the adverse effects of exposure to a range of pollutants, most typically including particulate matter, sulfur dioxide, nitrogen dioxide, ozone, lead, and carcinogenic pollutants such as benzene and the polycyclic aromatic hydrocarbons. The other main driver of science in the air pollution field has been the recognition that air pollutants have an effect upon global climate and that some of the locally acting air pollutants also have the capacity to influence climate locally, regionally, and globally. Airborne particles affect radiative transfer in the

atmosphere and provide one of the largest uncertainties in estimating the anthropogenic influences upon climate change. This volume covers a number of topics, including but not

limited to: urban air quality, air pollution monitoring, air quality guidelines, aerosol in the atmosphere, and the effect of transport on air quality. Each contribution contains a glossary of key terms and a concise definition of the subject.