ATMOSPHERIC POLLUTION HISTORY SCIENCE AND REGULATION (DOWNLOAD ONLY)

Florence Garcia

Atmospheric Pollution History Science And Regulation Introduction

Atmospheric Pollution

Publisher Description

Atmospheric Pollution

New edition of introductory textbook, ideal for students taking a course on air pollution and global warming, whatever their background. Comprehensive introduction to the history and science of the major air pollution and climate problems facing the world today, as well as energy and policy solutions to those problems.

Air Pollution and Global Warming

Atmospheric Pollution: Its History, Origins and Prevention looks at the history, sources, and controls of air pollution in Britain. Topics covered include the origin of fuel, natural solid fuels such as wood and coal,and manufactured fuels such as coke and alcohol. Mineral oils and gases are also considered, along with industrial boilers and furnaces, combustion and power generation, and the effects of pollution. This book is comprised of 16 chapters and begins with an overview of atmospheric pollution, its causes, and prevention. The next six chapters deal with fuels, furnaces, and fires, with emphasis on natural solid fuels including coal, mineral oils and gases such as petroleum and natural gas, and artificial fuels like charcoal, alcohol, and water gas. The remaining chapters focus on the properties of atmospheric pollution and consider atmospheric pollution from engines and furnaces. Radioactive air pollutants are also examined and remedial measures are proposed to control atmospheric pollution. The last chapter is an account of the law in England and in other countries governing atmospheric pollution. This monograph is meant to be of use to all who are professionally interested in atmospheric pollution, from environmental health officers, legislators, and city councilors to architects, engineers, meteorologists, boiler operators and builders.

Atmospheric Pollution

Utilizing environmental archival materials from the UK, State, Science and the Skies presents a groundbreaking historical account of the development of a state science of atmospheric pollution. Offers the most extensive historical and geographical account of atmospheric government and pollution in Britain, available today Presents archival material from 150 years of British history that represents an original contribution to our knowledge of the history of science and government Develops an innovative combination of Foucauldian history of government with a history of atmospheric science Raises crucial questions about the nature of state/science relations and the conditions under which environmental knowledge is produced

State, Science and the Skies

This revised and updated study is about the atmosphere and humanity's influence on it. Following an analysis of the natural environment, it re-examines the sources of air pollution and its effects, including decline in health, damage to plants and animals, indoor pollution, and acid rain.

Air Composition and Chemistry

Publisher Description

Fundamentals of Atmospheric Modeling

Concern about the impact of air pollution has led governments and local authorities across the world to regulate, among other things, the burning of fossil fuels, industrial effluence, cigarette smoke, and aerosols. This legislation has often followed dramatic findings about the impact of pollution on human health. At the same time there have been significant developments in our ability to detect and quantify pollutants and a proliferation of urban and rural air pollution networks to monitor levels of atmospheric contamination. Air Pollution and Health is the first fully comprehensive and current account of air pollution science and it impact on human health. It ranges in scope from meteorology, atmospheric chemistry, and particle physics to the causes and scope of allergic reactions and respiratory, cardiovascular, and related disorders. The book has substantial international coverage and includes sections on cost implications, risk assessment, regulation, standards, and information networks. The multidisciplinary approach and the wide range of issues covered makes this an essential book for all concerned with monitoring and regulating air pollution as well as those concerned with its impact on human health. Only comprehensive text covering all the important air pollutants and relating these to human health and regulatory bodies Brings together a wide range of issues concerning air pollution in an easily accessible format Contributions from government agencies in the US and UK provide information on public policy and resource networks in the areas of health promotion and environmental protection

Air Pollution and Health

The Clean Air Act of 1970 set out for the United States a basic, yet ambitious, objective to reduce pollution to levels that protect health and welfare. The Act set out state and federal regulations to limit emissions and the Environmental Protection Agency was established to help enforce the regulations. The Act has since had several amendments, notably in 1977 and 1990, and has successfully helped to increase air quality. This book reviews the history of the Clean Air Act of 1970 including the political, business, and scientific elements that went into establishing the Act, emphasizing the importance that scientific evidence played in shaping policy. The analysis then extends to examine the effects of the Act over the past forty years including the Environmental Protection Agency's evolving role and the role of states and industry in shaping and implementing policy. Finally, the book offers best practices to guide allocation of respective government and industry roles to guide sustainable development. The history and analysis of the Clean Air Act presented in this book illustrates the centrality of scientific analysis and technological capacity in driving environmental policy development. It would be useful for policy makers, environmental scientists, and anyone interested in gaining a clearer understand of the interaction of science and policy. Offers an overview of the 1970 Clean Air Act and its subsequent effects Highlights the relationship between policy and scientific discovery Extracts lessons from the United States to apply to other policy and national contexts

Atmospheric Pollution

Complete coverage of air pollution from its sources to its health and environmental impacts, for advanced students and researchers.

An Interactive History of the Clean Air Act

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.

Air Pollution

The first full synthesis of modern scientific and applied research on urban climates, suitable for students and researchers alike.

Air Pollution and Health

People spend most of their time indoors, and indoor air pollutants can cause both long and short term health effects. Awareness of indoor air pollution as an environmental issue, however, is relatively new. This book has been prepared to offer an up-to-date, comprehensive reference manual on indoor air quality to scientists and professionals active in this area. The intention of the book is to bring together a collection of contributions from specialists in the specific disciplines of indoor air quality, covering all points of view from various angles, from building design and building sciences, to health effects and medical diagnosis, toxicology of indoor air pollutants, and air sampling and analysis. One of the characteristics of this book is the multidisciplinary approach that integrates the expertise of medical doctors, architects, engineers, chemists, biologists, physicists and toxicologists. The resulting product is of great educational value and recommended for consultation as well as teaching purposes. The panel of conrtibuting authors includes top experts on indoor air worldwide, who have participated in international workshops and led the development of indoor air sciences over the recent years.

A Digest of State Air Pollution Laws

Textbook on the science and methods behind a global transition to 100% clean, renewable energy for science, engineering, and social science students.

Urban Climates

Climate Change: Evidence and Causes is a jointly produced publication of The US National Academy of Sciences and The Royal Society. Written by a UK-US team of leading climate scientists and reviewed by climate scientists and others, the publication is intended as a brief, readable reference document for decision

makers, policy makers, educators, and other individuals seeking authoritative information on the some of the questions that continue to be asked. Climate Change makes clear what is well-established and where understanding is still developing. It echoes and builds upon the long history of climate-related work from both national academies, as well as on the newest climate-change assessment from the United Nations' Intergovernmental Panel on Climate Change. It touches on current areas of active debate and ongoing research, such as the link between ocean heat content and the rate of warming.

State Laws on Air Pollution

Managing the nation's air quality is a complex undertaking, involving tens of thousands of people in regulating thousands of pollution sources. The authors identify what has worked and what has not, and they offer wide-ranging recommendations for setting future priorities, making difficult choices, and increasing innovation. This new book explores how to better integrate scientific advances and new technologies into the air quality management system. The volume reviews the three-decade history of governmental efforts toward cleaner air, discussing how air quality standards are set and results measured, the design and implementation of control strategies, regulatory processes and procedures, special issues with mobile pollution sources, and more. The book looks at efforts to spur social and behavioral changes that affect air quality, the effectiveness of market-based instruments for air quality regulation, and many other aspects of the issue. Rich in technical detail, this book will be of interest to all those engaged in air quality management: scientists, engineers, industrial managers, law makers, regulators, health officials, clean-air advocates, and concerned citizens.

Indoor Air Quality

This text concentrates on specific air pollution problem areas. Chapters are structured to include a descriptive section which introduces the bulk of the information available concerning the specific problem area, followed by an explanatory section which discusses possible solutions. Work in atmospheric pollution will require specially trained personnel who can respond professionally to the requirements of a problem that spans a wide range of academic disciplines. An interdisciplinary approach is used in this book in the hope of creating the kind of cooperative spirit that must be evidenced if any progress is ever going to be made toward finding an overall solution to the air pollution crisis. - Preface.

100% Clean, Renewable Energy and Storage for Everything

William M. Cavert investigates the origins of urban air pollution, explaining how this problem arose during the early modern period.

Atmospheric Pollution

The concept of the Earth's atmosphere, biosphere, oceans, soil, and rocks operating as a closely interacting system has rapidly gained ground in science. This new field, involving geographers, geologists, biologists, oceanographers, and atmospheric physicists, is known as Earth system science. This introductory text considers how a world in which humans could evolve was created; how, as a species, we are now reshaping that world; and what a sustainable future for humanity within the Earth system might look like. Drawing on elements of geology, biology, chemistry, physics, and mathematics, it also asks whether Earth system science can help guide us onto a sustainable course before we alter the Earth system to the point where we destroy ourselves and our current civilisation.

Climate Change

In this Very Short introduction Paul Palmer looks at the structure and basic physics and chemistry of the Earth's atmosphere, comparing it to the atmospheres of other planets, particularly our neighbours, Venus and

Mars. Palmer looks at the effects of pollutants and climate change, and what may happen to our atmosphere in the future.

Atmospheric Pollution

‘Nathaniel Rich’s account starts in Washington in the 1990s and tells the story of how climate change could have been stopped back then, if only the powerful had acted. But they didn’t want to.’ – Observer By 1979, we knew all that we know now about the science of climate change – what was happening, why it was happening, and how to stop it. Over the next ten years, we had the very real opportunity to stop it. Obviously, we failed. Nathaniel Rich tells the essential story of why and how, thanks to the actions of politicians and businessmen, that failure came about. It is crucial to an understanding of where we are today. ‘The excellent and appalling Losing Earth by Nathaniel Rich describes how close we came in the 70s to dealing with the causes of global warming and how US big business and Reaganite politicians in the 80s ensured it didn’t happen. Read it.’ – John Simpson ‘An eloquent science history, and an urgent eleventh-hour call to save what can be saved.’ – Nature ‘To change the future, we must first understand our past, and Losing Earth is a crucial part of that when it comes to the environmental battles we’re facing.’– Stylist

Air Quality Management in the United States

\"The combination of scientific and institutional integrity represented by this book is unusual. It should be a model for future endeavors to help quantify environmental risk as a basis for good decisionmaking.\" â€\"William D. Ruckelshaus, from the foreword. This volume, prepared under the auspices of the Health Effects Institute, an independent research organization created and funded jointly by the Environmental Protection Agency and the automobile industry, brings together experts on atmospheric exposure and on the biological effects of toxic substances to examine what is knownâ€\"and not knownâ€\"about the human health risks of automotive emissions.

The Investigation of Atmospheric Pollution

The Story of the Earth presents the complex history of the Earth from its formation through to the emergence of man and his influence on the planet. Peter Cattermole and Patrick Moore trace the evolution of Earth from its beginnings in the primeval Solar Nebula, through its bombardment by cosmic particles, continental drifting and the formation of mountains and oceans, and end with a study of the last Ice Age and the rise of man. While the approach is roughly chronological, time is spent in explaining some of the methods that geologists, physicists, chemists and biologists use to discover what processes have contributed to the internal make-up and external appearance of our unique planet. Accounts are included of the dramatic events that are still changing the face of the Earth: volcanoes and photographs - several taken from orbiting satelites - help to elucidate the story.

Atmospheric Pollution

Atmospheric Science at NASA critically examines this politically controversial science, dissecting the often convoluted roles, motives, and relationships of the various institutional actors involved—among them NASA, congressional appropriation committees, government weather and climate bureaus, and the military.

The Smoke of London

Examines the successes and failures of the Clean Air Act in order to lay a foundation for future energy policy.

Atmospheric Pollution

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 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 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 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.

Earth System Science

The world's cities are choking on pollution from traffic and industry. With the health of over 1.6 billion people under threat, poor urban air quality is fast becoming one of them most pressing environmental problems of our times. Smog Alert examines the causes and scale of urban air pollution, identifying who is most at risk, and what particular health risks various pollutants pose. It then considers an effective framework for air quality management, so that national and city authorities can consider what pollution control polices and measures are needed to deliver healthy urban air quality, and to sustain it in the future. Having established the background and framework, the book examines the existing and alternative measures to monitor and combat the declining air quality. It assesses smog alert systems; the potential for cleaner car and fuel technology; sustainable traffic management and public transport policies; and methods of controlling both industrial and residential emissions. Detailed case studies illustrate the severity and breadth of the problem - from the first serious photochemical smogs in Los Angeles to the dire warning offered by Mexico City; and from London (the city which coined the word 'smog') to Athens' pollution phenomenon, the 'nefos'. Drawing on the lessons learned from past experience, Smog Alert provides a comprehensive analysis of how health air quality may yet be achieved in the world's cities.

The Atmosphere

Toxic Airs brings together historians of medicine, environmental historians, historians of science and technology, and interdisciplinary scholars to address atmospheric issues on a spectrum of scales from body to place to planet. The chapters analyze airborne and atmospheric threats posed to humans, and contributors demonstrate how conceptions of toxicity have evolved and how humans have both created and mitigated toxins in the air. Specific topics discussed include medieval beliefs in the pestilent breath of witches, malarial theory in India, domestic and military use of tear gas, Gulf War Syndrome, Los Angeles smog, automotive emissions control, the epidemiological effects of air pollution, transboundary air pollution, ozone depletion, the contributions of contemporary artists to climate awareness, and the toxic history of carbon “die”-oxide. Overall, the essays provide a wide-ranging historical study of interest to students and scholars of many disciplines.

Losing Earth

Air Pollution, the Automobile, and Public Health

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