

Biofiltration For Air Pollution Control

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Today and Tomorrow in Air Pollution
Air Pollution Control and Clean Energy
Willingness to Pay for Air Quality Improvements in Sofia, Bulgaria
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this book written by an international group of experts from china europe and the usa presents a broad and comprehensive analysis of the chemical and meteorological processes responsible for the formation of air pollutants in eastern asia and in particular for the development of severe pollution episodes observed primarily during winter in the northeastern part of china with the rapid population growth economic development and urbanization occurring in asia air pollution has become a major environmental problem in this part of the world the book is organized around six distinct parts the first part of the volume offers a general perspective on issues related to air pollution including persistent haze events in eastern and southern asia the second part presents an overview of air pollution sources i e anthropogenic and biomass burning sources the third part analyzes in situ observations of chemical species in china while the fourth part focuses on space observations of gas phase and aerosol species the modeling aspects are treated in the fifth part of the volume which includes a presentation of several air quality forecast systems and an assessment of the role of urbanization on air pollution levels finally the effects of air pollution on health and crop productivity in china are discussed in the last part of the book the book also presents an integrated view of past and present situations in asia and provides the scientific basis from which mitigation policies can be established and air quality can be improved audience this book is written for scientists educators students environmental managers policy makers and leaders in public administration and private corporations who wish to use science based information to mitigate air pollution the book should help decision makers to design effective policies for air quality improvement and to successfully manage short term air pollution episodes that substantially affect people s quality of life and strongly impact the economy

in developing countries the price of rapid growth is all too often noxious airborne pollution which annually contributes to a disturbing number of avoidable deaths in recent decades however there has been considerable progress in the epidemiology of air pollution significant changes in international air pollution guidelines and the emergence of more systematic approaches to air pollution control while many of these advances have originated in affluent countries there have been major developments in other parts of the world in this book a distinguished cast of leading researchers in both the scientific and policy dimensions of air pollution and health have synthesized the recent developments in the field and their relevance for public health in developing countries the authors review studies from a wide range of asian african and latin american countries and contrast the findings with those from europe and north america they also describe various tools and systems for air pollution management and emphasize approaches that can be used when data is scarce with a clear focus on the scientific and technical aspects of air pollution and health this book is essential reading for pollution and health policy makers researchers and others concerned with air pollution and health in developing countries

health and environmental effects of ambient air pollution is part of a series of three volumes for air pollution human health and the environment volume 1 discusses the adverse consequences of ambient air pollutants on human health animals plants and structures this book examines the production of ambient air pollutants in the environment it begins with an overview of the classifications sources and occurrences of outdoor air pollutants this book covers meteorological climate and topographical factors affecting air pollution discusses how urbanization and industrialization affect air quality and explores how climate conditions like global warming acid rain and airborne particulate matter impact human health it also looks at epidemiology studies and socioeconomic aspects of outdoor air pollution estimating health and cost effects air quality indices guidelines standards and information networks of ambient air pollutants with contributors from experts in the field this book is a valuable reference for academicians researchers and students in environmental health public health and occupational health as well as environmental engineers meteorologists epidemiologists medical researchers and environmental toxicologists discusses both causes of ambient air pollution and the toxicological impact on human health covers the health risk assessment of ambient air with an emphasis on the elements exposure and risk management examines air quality management and other ambient air pollution solutions discusses the environmental effects of ambient air pollutants like climate change and global warming examines the epidemiology studies estimating health and cost effects

this book reviews air pollution discussing its far reaching impacts and presenting sustainable strategies to effectively address and mitigate these challenges the book explores how addressing air pollution is in alignment with the united nations sustainable development goals specifically sdg 3 good health and well being sdg 11 sustainable cities and communities and sdg 13 climate action in this book readers will find in depth discussions on the effects of air pollution on human health ecosystems and the environment underscoring the urgent need for effective mitigation strategies and the critical role of air pollution in driving climate change the book also examines the economic impacts of air pollution and the disproportionate burden it places on vulnerable populations emphasizing the importance of equitable public health policies and the necessity of social justice in pollution control efforts furthermore this work presents sustainable strategies for managing air quality stressing their significance for both human health and climate benefits it provides an authoritative analysis of the policies and regulations crucial to achieving clean air highlighting their role in reducing the adverse effects of air pollution on public health special attention is given to the latest technologies and innovations designed to mitigate air pollution together with its companion volume air pollutants in the context of the one health approach fundamentals sources and impacts this book serves as an essential resource for researchers policymakers students and all those dedicated to tackling the complex challenges posed by air pollution and its far reaching consequences for human health the environment and global

sustainability

a fundamental treatment of all aspects of the physical and chemical behavior of air pollutants provides a clear analysis of the chemistry of atmospheric pollutants an extensive treatment of the formation thermodynamics and dynamics of atmospheric aerosols and an elementary discussion of atmospheric diffusion with commonly used atmospheric diffusion formulas derived from first principles also contains comprehensive coverage of atmospheric removal processes including wet and dry deposition statistical distributions of atmospheric concentrations and a discussion of acid rain numerous problems enable students to evaluate their understanding all major chapters contain up to date bibliographies

fundamentals of air pollution focuses on air quality and the control of air pollution this book discusses the meteorology of air pollution and the behavior of the atmosphere which differentiates air pollution from the various aspects of environmental management and protection organized into four parts encompassing 28 chapters this text begins with an overview of the gaseous composition of unpolluted air including nitrogen oxygen water argon carbon dioxide neon helium methane hydrogen nitrous oxide and organic vapor this book then differentiates the primary pollutants that are emitted directly from the source and the secondary pollutants that cause eye irritation smog and haze other chapters consider the adverse effects of air pollution to human health environment and economy this book is a valuable resource to air pollution space atmospheric and medical scientists as well as environmentalists ecologists biologists and meteorologists this text will also be useful to economists engineers sanitarians chemists public administrators educators public relations specialists researchers and students

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 i

based in part on symposia presented at three meetings of the american institute of chemical engineers

people in sofia are willing to pay 4.2 percent of their income or more for a program to improve air quality cover

air pollution is an alarming problem not only in terms of air quality but also in relation to health issues toxic air pollutant concentrations produce harmful impacts on plant health and human health further though there are various sources of air pollution anthropogenic and biogenic

sources are becoming increasingly problematic a number of control methods have been applied to reduce the air pollutant concentrations so that their global environmental burden on plants as well as humans can be mitigated however as confirmed in numerous reports and studies their concentrations continue to be very high and everyday cases related to air pollution have become exponentially high not only in developing countries but also in developed countries in plants toxic air quality has various adverse effects including biochemical and physiological disorders chronic diseases and or lower yields in humans air pollutants affect the body s metabolism and immune system lungs and central nervous system this book provides an essential overview of air pollution its impacts on plant and human health and potential control strategies the respective chapters cover general monitoring and characterization techniques for air pollutants air quality modelling applications plant and human health effects risk assessment and air pollution control policy given its scope the book offers a valuable and unique resource for students of environmental science biological science medical science and agriculture and for environmental consultants researchers and other professionals whose work involves air quality plant and human related research

this unique textbook examines the basic health and environmental issues associated with air pollution including the relevant toxicology and epidemiology it provides a foundation for the sampling and analysis of air pollutants as well as an understanding of international air quality regulations written for upper level undergraduate and introductory graduate courses in air pollution the book is also a valuable desk reference for practicing professionals who need to have a broad understanding of the topic important notice the digital edition of this book is missing some of the images or content found in the physical edition

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