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Asian Atmospheric Pollution: Sources,
Characteristics and Impacts provides a concise
yet comprehensive treatment of all aspects of
pollution and air quality monitoring, across all of
Asia. It focuses on key regions of the world and
details a variety of sources, their transport
mechanism, long term variability and impacts on
climate at local and regional scales. It also
discusses the feedback on pollutants, on
different meteorological parameters like
radiative forcing, fog formations, precipitation,
cloud characteristics and more. Drawing upon
the expertise of multiple well-known authors

from different countries to underline some of
these key issues, it includes sections dedicated
to treatment of pollutant sources, studying of
pollutants and trace gases using satellite/station
based observations and models, transport
mechanisms, seasonal and inter-annual
variability and impact on climate, health and
biosphere in general. Asian Atmospheric
Pollution: Sources, Characteristics and Impacts
is a useful resource for scientists and students to
understand the sources and dynamics of
atmospheric pollution as well as their transport
from one continent to other continents, helping
the atmospheric modelling community to model
different scenarios of the pollution, gauge its
short term and long term impacts across
regional to global scales and better understand
the ramifications of episodic events. Covers all of
Asia in detail in terms of pollution Focuses not
only on local pollution, but on long-term
transport of these pollutants and their impacts
on other regions as well as the globe Includes
discussion of both particulate matter and
greenhouse gases Serves as a single resource on
Asian air pollution and Impacts from the most
current research across the globe including the
US, Asia, Africa and Europe Pollution: Causes,
Effects and Control has established itself as a
key text, providing an introduction on the causes
and effects of pollution in the modern world. It is
wide ranging, touching on marine pollution,
toxic wastes, air pollution, effects of pollutants
on crops and trees, and waste minimization. This
3rd edition has been updated and expanded to
reflect the changes of recent years. In particular,
it contains new chapters on marine pollution,
contaminated land, solid waste disposal, toxic
organic chemicals and the effects of air pollution
on human health. The book's treatment of its
subject is essentially introductory, although
some aspects are covered in greater depth. The
contributions combine to give abroad overview,
touching on a wide range of important areas.
More than ever before, the environment is high

on the political agenda, illustrating the need for authoritative scientific information. Pollution: Causes, Effects and Control is essential reading for all those who want to know the facts behind the effects of pollution on the world in which we live. Expanded and updated edition (first ed. was 1982) of a text for advanced undergraduate and graduate students with an interest in environmental chemistry and pollution research. Two entirely new chapters deal with radioactive pollution and the chemistry and pollution of the stratosphere. Annotation copyrighted by Book News, Inc., Portland, OR At the time of writing, the topic of lead pollution is the subject of an intense and sometimes heated debate. The argument centres upon possible adverse health effects arising from exposure of children to current environmental levels of lead. Such arguments now appear little closer to resolution than they did five years ago, although the development of ever more sophisticated biochemical and epidemiological techniques may eventually provide an answer. Over the past five to ten years, as the general public has become aware of the lead issue, pressure has been put upon governments to limit emissions of lead, and hence limit or reduce the exposure of the population to the metal. Governments and governmental agencies have responded in several ways, varying between those who prefer to take little or no action on the basis that they see no cause for concern, and those who have taken firm action after concluding that the scientific and medical evidence warrants this approach. Any effective control strategy for lead requires knowledge of the sources of environmental exposure and an understanding of the pathways of this metal in the environment. This book aims to provide such information and to explain the methods available for limiting emissions of lead from the most important sources. To put this information in context a chapter on the routes of human exposure to lead and the health effects is included. This book was written by undergraduate students at The Ohio State University (OSU) who were enrolled in the class Introduction to Environmental Science. The chapters describe some of Earth's major environmental challenges and discuss ways that humans are using cutting-edge science and engineering to provide sustainable solutions to

these problems. Topics are as diverse as the students, who represent virtually every department, school and college at OSU. The environmental issue that is described in each chapter is particularly important to the author, who hopes that their story will serve as inspiration to protect Earth for all life. The propagation of noise that can have a harmful impact on the activities of human and animal life is known as noise pollution. Major sources of noise pollution include machines, transport and propagation systems. It can also be caused by loud music, construction and electrical generators. High levels of noise pollution can give rise to cardiovascular effects in humans and increase the incidences of coronary artery disease. Noise can also have a detrimental effect on animals. It can upset the delicate balance in predator or prey detection and avoidance, as well as interfere in the use of sound for communication. Different approaches, evaluations and methodologies and advanced studies on noise pollution have been included in this book. It covers in detail some existent theories and innovative concepts revolving around this problem. The book is appropriate for those seeking detailed information in this area. Environment pollution is defined as the introduction of any pollutants into the earth's atmosphere which has adverse effects on the environment. This book on environmental pollution discusses the consequences and damage-assessment of hundreds of years of waste disposal and technological progress that has occurred. This book sheds light on the causes and impacts of environmental pollution. It unravels the recent studies and unfolds some innovative aspects in the field. This text presents researches and case studies contributed by experts from across the globe. It attempts to understand the multiple branches that fall under the discipline of environmental pollution. Those in search of information to further their knowledge will be greatly assisted by this book. Researchers and students in the fields of urban studies, environmental and ecological engineering, conservations, habitat management and wildlife preservation will find this book especially helpful. Environmental pollution is caused when contaminants enter the natural environment and cause adverse changes.

Pollution can be of different types, such as air pollution, soil pollution and water pollution, among others. Combustion, mining, warfare, construction and agriculture are the anthropogenic contributors of air pollution. Other sources and activities that prove hazardous to the environment include nuclear waste disposal, coal-powered petrochemical plants, heavy industries, burning of natural vegetation, use of pesticides and herbicides, etc. Pollution affects human health significantly and can lead to cardiovascular and respiratory diseases, neurological problems, birth defects and cancers, besides others. The environmental effects of pollution include ocean acidification, biomagnification, occurrence of acid rain, global warming, biodiversity reduction, etc. The practices of recycling and reusing, use of compost, employing industrial wastewater treatment and sewage treatment are some of the effective techniques of controlling environmental pollution. This book unravels the recent studies in this field. Also included herein is a detailed explanation of the various causes, effects and control measures of environmental pollution. This book will serve as a reference to a broad spectrum of readers. Revised and updated edition of an introductory text, first published in 1974, which outlines some of the most recent advances in knowledge of the behaviour and toxicology of chemicals. Provides a detailed coverage of known water pollutants, as well as discussing the chemical and biological changes resulting from water pollution. Includes references and an index. The author is an associate professor in the Faculty of Environmental Studies at Griffith University. Pollution: Causes, Effects and Control is the fourth edition of a best-selling introductory level book dealing with chemical and radioactive pollution in its broadest sense. The scope of the book ranges from the sources of pollutants and their environmental behaviour, to their effects on human and non-human receptors, to the technologies and strategies available for control. The fourth edition has been wholly revised and updated from the previous edition due to the rapid pace of developments in this field. Topics covered include chemical pollution of freshwater and marine environments, drinking water quality, water pollution biology, sewage and its

treatment, toxic wastes, air pollution and atmospheric chemistry, control of pollutant emissions, land contamination, solid waste management, clean technologies, persistent organic pollutants in the environment, environmental radioactivity, health effects of environmental chemicals, legal control of pollution and integrated pollution control. There is a completely new chapter on Clean Technologies and Industrial Ecology, reflecting the growing importance of pollution prevention as opposed to end-of-pipe solutions. Whilst originally intended as an introductory reference work for professionals within the field, the book has been widely adopted for teaching purposes at the undergraduate and postgraduate level. Twenty years on from the first edition of Pollution and the topic remains high in the public awareness. Environmental pollution is now a major area of research, consultancy and technological development and is a priority for the political agendas of both the developed and developing worlds. The fifth edition of this book is fully updated, and includes an entirely new chapter on Climate Change, presenting an authoritative view on this topic. Chapters in fast moving areas have been completely revised and several newcomers have joined the original set of authors. This popular book has proved invaluable as a teaching resource for two decades and is frequently used as a reference by practitioners in the field. Readers of earlier editions will benefit from updates on technologies such as nanoscience, and the legislative changes that have occurred since the fourth edition in 2001. Microorganisms for Sustainable Environment and Health covers hazardous pollutants released from natural as well as anthropogenic activities and implications on environmental and human health. This book serves as a valuable source of basic knowledge and recent developments in the clean technologies and pollution-associated diseases and abnormalities in the context of microorganisms. Focused on current solutions to various environmental problems in the field of bioremediation, it provides a detailed knowledge on the various types of toxic environmental pollutants discharged from different sources, their toxicological effects in environments, humans, animals and plants as well as their

biodegradation and bioremediation approaches. This book helps environmental scientists and microbiologists learn about existing environmental problems and suggests ways to control or contain their effects by employing various treatment approaches. Provides information on waste treatment approaches using microbes Includes applications in biofuel and bioenergy production Covers green belt development, hydroponics, phytoremediation, wetland treatment technology, and common effluent treatment plants (CETPs) Discusses dissemination of antibiotic resistance among pathogenic microbes and strategies to combat multi-drug resistance (MDR) Water Pollution: Causes, Effects And Control Is A Book Providing Comprehensive Information On The Fundamentals And Latest Developments In The Field Of Water Pollution. The Book Is Divided Into 28 Chapters Covering Almost All The Aspect Of Water Pollution Including Water Resources And General Properties Of Water; History Of Water Pollution And Legislation; Origin, Sources And Effects Of Pollutants; Bioaccumulation And Biomagnification; Toxicity Testing And Interaction Of Toxicities In Combination; Water Quality Standards; Biomonitoring Of Water Pollution; Bacteriological Examination And Purification Of Drinking Water; Monitoring And Control Of Pollution In Lakes, Rivers, Estuaries And Coastal Waters; Physical And Biological Structure Of Aquatic Systems; And Structure, Properties And Uses Of Water. Some Important Topics Like Eutrophication, Organic Pollution, Oil Pollution And Thermal Pollution Have Been Discussed In Detail. The Water Pollution Caused By Pesticides, Heavy Metals, Radio Nuclides And Toxic Organics And Inorganic Along With The Water Quality Problems Associated With Water-Borne Pathogens And Nuisance Algae Have Also Been Dealt With Extensively. The Book Covers In Detail The Flow Measurement And Characterization Of Waste Waters In Industries, And Control Of Water Pollution By Employing Various Techniques For Treatment Of Biological And Nonbiological Wastes. The Considerations For Recycling And Utilization Of Waste Waters Have Also Found A Place In The Book. Special Topic Has Also Been Given On Water Pollution Scenario And Water Related Policies And Programmes In India. The Book Shall Be Of

Immediate Interest To The Students Of Environmental Science, Life Science And Social Sciences Both At Undergraduate And Postgraduate Levels. People From A Wide Variety Of Other Disciplines Like Civil, Chemical And Environmental Engineering; Pollution Control Authorities; Industries; And Practicing Engineers, Consultants And Researchers Will Also Find The Book Of Great Interest. THE ENVIRONMENT Pollution: causes, effects and mitigation measures volume one is written to enable the readers (the educated, the students, the professionals and the non-professionals) understand pollution and to educate them in the most simplified manner with a view to taking necessary actions for a healthy living in a clean environment. Pollution which is one of the major contributors to climate change continue to have huge adverse effects on every nation (i.e. the people, the economy, agriculture, infrastructure, etc). Hence there is an urgent need for enlightenment and compulsory appropriate actions to be taken by every individual, every organization and every nation. This book provides the needed information to deal with pollution locally and globally.

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