

Environmental Science

Chapter 10

10.1 Air Pollution and Health

- The Clean Air Act Regulates Major Pollutants 1970
- These six are referred to as **conventional or criteria pollutants**, and they include sulfur dioxide, nitrogen oxides, carbon monoxide, ozone (and its precursor volatile organic compounds), lead, and particulate matter.
- The EPA also monitors **unconventional pollutants**, compounds that are produced in less volume than conventional pollutants, but that are especially toxic or hazardous.
- A **point source** is a smokestack or some other concentrated pollution origin.
- **Primary pollutants** are released in a harmful form.
- **Secondary pollutants** become hazardous after reactions in the air.
- **Fugitive or nonpoint-source** emissions are those that do not go through a smokestack.
- **Sulfur dioxide (SO₂)** is a colorless, corrosive gas that damages both plants and animals.
- **Nitrogen oxides (NO_x)** are highly reactive gases formed when the heat of combustion initiates reactions between atmospheric nitrogen (N₂) and oxygen (O₂). The initial product, nitric oxide (NO), oxidizes further in the atmosphere to nitrogen dioxide (NO₂), a reddish-brown gas that gives photochemical smog its distinctive color.
- **Carbon monoxide (CO)** is a colorless, odorless, but highly toxic gas produced mainly by incomplete combustion of fuel (coal, oil, charcoal, wood, or gas). CO inhibits respiration in animals by binding irreversibly to hemoglobin in blood.
- **Ozone (O₃)** ground level ozone is highly reactive oxidizing agent that damages eyes, lungs, and plant tissues, as well as paint, rubber, and plastics. It is a secondary pollutant, created by chemical reactions that are initiated by solar energy.
- Interacting with ozone to produce smog are a variety of **volatile organic compounds (VOCs)** contribute to the formation of ozone and other photochemical oxidants.
- **Lead**, our most abundantly produced metal air pollutant, impairs nerve and brain functions.
- **Particulate material** includes dust, ash, soot, lint, smoke, pollen, spores, algal cells, and many other suspended materials like aerosols.
- A special category of toxins is monitored by the U.S. EPA because they are particularly dangerous. Called **hazardous air pollutants (HAPs)**, these chemicals cause cancer, nerve damage, disrupt hormone function, and fetal development. These persistent substances remain in ecosystems for long periods of time, and accumulate in animal and human tissues.
- In 1986, Congress established the **Toxic Release Inventory (TRI)** to help inform communities about toxic substances produced and handled in their area.
- Mercury is a Key Neurotoxin

10.2 Air Pollution and the Climate

- Chemical reactions of atmospheric gases and pollution produce the phenomenon known as the **ozone hole**. Chlorine-based aerosols, such as CFC's and HCFC's, are the principal agents of ozone depletion.

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Environmental Science Frank R. Spellman, Melissa L. Stoudt, 2013-02-14 *Environmental Science Principles and Practices* provides the scientific principles concepts applications and methodologies required to understand the interrelationships of the natural world identify and analyze environmental problems both natural and manmade evaluate the relative risks associated with these problems and examine alternative solutions such as renewable energy sources for resolving and even preventing them Frank R Spellman and Melissa Stoudt introduce the science of the environmental mediums of air water soil and biota to undergraduate students Interdisciplinary by nature environmental science embraces a wide array of topics *Environmental Science Principles and Practices* brings these topics together under several major themes including How energy conversions underlie all ecological processes How the earth s environment functions as an integrated system How human activities alter natural systems How the role of culture social and economic factors is vital to the development of solutions How human survival depends on practical ideas of stewardship and sustainability *Environmental Science Principles and Practices* is an ideal resource for students of science in the classroom and at home in the library and the lab

Environmental Science Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2007 *The Critical Importance Of Environmental Preservation Is Apparent To Everyone The Issues Facing Us Today Be They Global Warming The Depleting Ozone Layer The Controversy Over Nuclear Power Or The Continuing Problems Of Water Pollution And Solid Waste Disposal Are Headline News* *Environmental Science Systems And Solutions Fourth Edition* offers the basic principles necessary to understand and address these multi faceted and often very complex current environmental concerns The book provides a comprehensive overview and synthesis of environmental science and provides the basic factual data necessary to understand the environment as it is today It is important that students understand how various aspects of the natural environment interconnect with each other and with human society Using a systems approach the authors have organized complex information in a way that highlights these connections in a fair and unbiased fashion A study guide is incorporated at the end of each chapter to help reinforce concepts and provide a clear overview of material

Environmental Science , Environment Peter H. Raven, Linda R. Berg, David M. Hassenzahl, 2012-12-17 Raven s 8th edition of *Environment* offers more detailed content than the *Visualizing* text for a better understanding and integration of the core environmental systems and to view and analyze the role those systems play Shorter but still comprehensive coverage focuses on ethical decision making and key local environmental science issues requiring readers to think critically about the course material outside of the classroom Other features include brief text in the comprehensive segment extensive chapter pedagogy to help reinforce the systems approach more opportunities to think critically about the how systems intersect and fit together and new data interpretation questions at the end of each chapter

[AP Environmental Science Crash Course](#) Gayle Evans, 2011-10-01 REA s *AP Environmental Science Crash Course* is the first book of its kind for the last

minute studier or any AP student who wants a quick refresher on the course Written by an AP Environmental Science teacher the targeted review chapters prepare students for the test by only focusing on the important topics tested on the AP Environmental Science exam The easy to read review chapters in outline format cover everything AP students need to know for the exam human population dynamics managing public lands energy conservation changes in Earth s climate species extinction loss of biodiversity and more The author also includes must know key terms all AP students should know before test day With our Crash Course students can study the subject faster learn the crucial material and boost their AP score all in less time The author provides key strategies for answering the multiple choice questions so students can build their point scores and get a 5

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Surface, Sub-Surface Hydrology and Management Subodh Chandra Pal,Uday Chatterjee,2025-03-19 This book explores the surface and subsurface hydrological conditions and their management in a tropical or sub tropical setting applying geospatial and geostatistical derived predictive methods The book is a research of the surface and subsurface hydrological processes as a result of over exploitation for agricultural production and irrigation which resulted in a significant drop in

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Environmental Science and Technology Frank R. Spellman, 2017-09-15 The third edition of Environmental Science and Technology Concepts and Applications is the first update since 2006 Designed for the student and the professional this newly updated reference uses scientific laws principles models and concepts to provide a basic foundation for understanding and evaluating the impact that chemicals and technology have on the environment Building upon the success of previous editions this fully revised edition has been expanded and completely updated with significant changes in the treatment of all subject areas Extensive energy parameters have been added to the text along with a thorough discussion of non renewable and renewable energy supplies and their potential impact on the environment In addition thought provoking questions have been added at the end of each chapter Finally pictorial presentation has been enhanced by the addition of numerous photographs Organization and Content Environmental Science and Technology Concepts and Applications is divided into five parts and twenty five chapters and organized to provide an even and logical flow of concepts It provides the student with a clear and thoughtful picture of this complex field Part I provides the foundation for the underlying theme of this book the connections between environmental science and technology Part II develops the air quality principles basic to an understanding of air quality Part III focuses on water quality and the characteristics of water and water bodies water sciences water pollution and water wastewater treatment Part IV deals with soil science and emphasizes soil as a natural resource highlighting the many interactions between soil and other components of the ecosystem Part V is devoted to showing how decisions regarding handling solid and hazardous waste have or can have profound impact on the environment

and the three media discussed in this text air water and soil Finally the epilogue looks at the state of the environment past present and future The emphasis in this brief unit is on mitigating present and future environmental concerns by incorporating technology into the remediation process not by blaming technology for the problem

Key Concepts in Environmental Chemistry Grady Hanrahan, 2012 Key Concepts in Environmental Chemistry provides a modern and concise introduction to environmental chemistry principles and the dynamic nature of environmental systems It offers an intense one semester examination of selected concepts encountered in this field of study and provides integrated tools in explaining complex chemical problems of environmental importance Principles typically covered in more comprehensive textbooks are well integrated into general chapter topics and application areas The goal of this textbook is to provide students with a valuable resource for learning the basic concepts of environmental chemistry from an easy to follow condensed application and inquiry based perspective Additional statistical sampling modeling and data analysis concepts and exercises will be introduced for greater understanding of the underlying processes of complex environmental systems and fundamental chemical principles Each chapter will have problem oriented exercises with examples throughout the body of the chapter that stress the important concepts covered and research applications case studies from experts in the field Research applications will be directly tied to theoretical concepts covered in the chapter Overall this text provides a condensed and integrated tool for student learning and covers key concepts in the rapidly developing field of environmental chemistry Intense one semester approach to learning Application based approach to learning theoretical concepts In depth analysis of field based and in situ analytical techniques Introduction to environmental modeling

Environmental Science Robert K. Kaufmann, Cutler J. Cleveland, 2008 Unlike any other introductory environmental science text Robert Kaufmann and Cutler Cleveland's *Environmental Science* takes a fresh approach to the subject by weaving themes of energy and materials economic systems and policy throughout the entire text A story of real science is simply told through examples of cutting edge content real world applications and a distinctive conceptual illustration program

Catalog of National Bureau of Standards Publications, 1966-1976 United States. National Bureau of Standards, 1978

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Ebook: The Science of Psychology: An Appreciative View King, 2016-09-16 Ebook The Science of Psychology An Appreciative View

Environmental Science McKinney, Grant A. Mincy, Robert M. Schoch, Logan Yonavjak, 2017-12 *Environmental Science Systems and Solutions* Sixth Edition features updated data and additional tables with statistics throughout to lay the groundwork for a fair and apolitical foundational understanding of environmental science Important Notice The digital edition of this book is missing some of the images or content found in the physical edition

Sustaining the Earth George Tyler Miller, 1994

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