

# Environmental Science

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## **Environmental Science Workbook 2007** - ANONIMO 2006-06-01

Clear presentation of environmental issues Environmental Science presents complex issues in a user-friendly format to increase students' knowledge of scientific facts. The diversity of life, how living things interact with the environment, biomes, energy, water resources, pollution, feeding the world, and protecting biodiversity are all carefully presented in this appealing new text. Lexile Level 870 Reading Level 3-4 Interest Level 6-12 Written to meet national and state standards, Environmental Science helps students sharpen their critical-thinking skills as they interpret data, formulate hypotheses, observe and record information, analyze data, and draw conclusions. With a multitude of related activities and teacher support materials, the new Environmental Science text will provide students with a clear base of knowledge in this essential area of science.

## **Environmental Science** - Eldon D. Enger 2006

This full-color, introductory environmental science text is known for being concise, conceptual and value-priced. The approach and reading level cover the basic concepts without overloading students with too much detail. With the central theme throughout the text being interrelatedness, the authors identify major issues and give appropriate examples that illustrate the complex interactions that are characteristic of all environmental issues.

Environmental Science for AP\* - Andrew Friedland 2015-01-09

## **Environmental Science** - G. Tyler Miller 2012-01-01

ENVIRONMENTAL SCIENCE inspires and equips students to make a difference for the world. Featuring sustainability as their central theme, authors Tyler Miller and Scott Spoolman emphasize natural capital, natural capital degradation, solutions, trade-offs, and the importance of individuals. As a result, students learn how nature works, how they interact with it, and how humanity has sustained and can continue to sustain its relationship with the earth by applying nature's lessons to economies and individual lifestyles. Engaging features like Core Case Studies, and Connections boxes demonstrate the relevance of issues and encourage critical thinking. Updated with new learning tools, the latest content, and an enhanced art program, this highly flexible book allows instructors to vary the order of chapters and sections within chapters to meet the needs of their courses. Two new active learning features conclude each chapter. Doing Environmental Science offers project ideas based on chapter content that build critical thinking skills and integrate scientific method principles. Global Environmental Watch offers online learning activities through the Global Environment Watch website, helping students connect the book's concepts to current real-world issues. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## *Essential Environmental Science* - Simon Watts 2003-09-02

Essential Environmental Science brings together within a single volume the vast range of techniques, methods and basic tools necessary for the study of the environment. Environmental science has a massive area of operation, utilising the tools from a plethora of traditional sciences and social sciences. This practical manual draws on contributions from leading experts in each field, to present both general and specific environmental methods and techniques within a unique interdisciplinary environmental perspective. Essential Environmental Science offers an invaluable reference source for environmental study

in both the laboratory and in the field.

## **Environmental Science** - William P Cunningham, Prof. 2017-02-20

Environmental Science: A Global Concern is a comprehensive presentation of environmental science for non-science majors which emphasizes critical thinking, environmental responsibility, and global awareness. This book is intended for use in a one or two-semester course in environmental science, human ecology, or environmental studies at the college or advanced placement high school level. As practicing scientists and educators, the Cunningham author team brings decades of experience in the classroom, in the practice of science, and in civic engagement. This experience helps give students a clear sense of what environmental science is and why it matters in this exciting, new 13th edition. Environmental Science: A Global Concern provides readers with an up-to-date, introductory global view of essential themes in environmental science. The authors balance evidence of serious environmental challenges with ideas about what we can do to overcome them. An entire chapter focuses on ecological restoration; one of the most important aspects of ecology today. Case studies in most chapters show examples of real progress, and "What Can You Do?" lists give students ideas for contributing to solutions.

## **AP - Environmental Science** - Dr Tracey Greenwood 2020-08-08

BIOZONE's new AP Environmental Science is a dedicated title to address the new APES CED. This title takes a global perspective, examining the very latest issues concerning the environment while still providing the foundation for students to understand and engage with the science involved. Current concerns in the global community, including wildfires, COVID-19, glacial retreat, and loss of biodiversity are examined, with the emphasis being on the interconnectedness of Earth's systems and the importance of ecosystem services. Using current case studies, student investigations, and data analysis. BIOZONE's AP Environmental Science emphasizes the application of knowledge to understanding the Earth's systems and identifying and analyzing environmental problems and their solutions. This easily navigated resource addresses the two essential components of the course framework: science practices and course content. Its interdisciplinary approach and highly visual format encourage students to engage fully with the principles, ideas, and methodologies required to understand the natural world.

## *Environmental Science* - Michael L. McKinney 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 for AP® - Andrew Friedland 2019-04-12

Written specifically for the AP® Environmental Science course, Friedland and Relyea Environmental

Science for AP® Second Edition, is designed to help you realize success on the AP® Environmental Science Exam and in your course by providing the built-in support you want and need. In the new edition, each chapter is broken into short, manageable modules to help students learn at an ideal pace. Do the Math boxes review quantitative skills and offer you a chance to practice the math you need to know to succeed. Module AP® Review questions, Unit AP® Practice Exams, and a full length cumulative AP® Practice test offer unparalleled, integrated support to prepare you for the real AP® Environmental Science exam in May. The new edition also features a breakthrough in digital-based learning--an edaptex, powered by Copia Class.

*Environmental Science* - Michael L. McKinney 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.

**Environmental Science** - Takashiro Akitsu 2018-12-07

This book presents the current aspects of environmental issues in view of chemical processes particularly with respect to two facets: social sciences along with chemistry and natural sciences. The former facet explores the environmental economics and policies along with chemical engineering or green chemistry and the latter the various fields of environmental studies. The book was conceptualized in the form of e-learning content, such as PowerPoint presentation, with explanatory notes to a new style of lectures on environmental science in a university at undergraduate level. Each chapter of the book comprises a summary of the contents of the chapter; a list of specific terms and their explanation; topics that can be taken up for discussion among college students, mainly freshmen in liberal arts, and for enhancing general knowledge; and problems and solutions using active learning methods.

**Environmental Science For Dummies** - Alecia M. Spooner 2012-07-31

The easy way to score high in Environmental Science Environmental science is a fascinating subject, but some students have a hard time grasping the interrelationships of the natural world and the role that humans play within the environment. Presented in a straightforward format, Environmental Science For Dummies gives you plain-English, easy-to-understand explanations of the concepts and material you'll encounter in your introductory-level course. Here, you get discussions of the earth's natural resources and the problems that arise when resources like air, water, and soil are contaminated by manmade pollutants. Sustainability is also examined, including the latest advancements in recycling and energy production technology. Environmental Science For Dummies is the most accessible book on the market for anyone who needs to get a handle on the topic, whether you're looking to supplement classroom learning or simply interested in learning more about our environment and the problems we face. Presents straightforward information on complex concepts Tracks to a typical introductory level Environmental Science course Serves as an excellent supplement to classroom learning If you're enrolled in an introductory Environmental Science course or studying for the AP Environmental Science exam, this hands-on, friendly guide has you covered.

*Environmental Science* - Richard T. Wright 2013-07-26

Were you looking for the book with access to MasteringEnvironmentalScience? This product is the book alone and does NOT come with access to MasteringEnvironmentalScience. Buy the book and access card package to save money on this resource. For introductory courses in Environmental Science, Environmental Studies, and Environmental Biology. With dramatically revised illustrations, the Twelfth Edition of Environmental Science: Toward a Sustainable Future is even more student-friendly while retaining the currency and accuracy that has made Wright/Boorse a best seller. The text and media program continue to help students understand the science behind environmental issues and what they can do to build a more sustainable future, with further exploration of the hallmark core themes: Science, Sustainability, and Stewardship.

**Our Final Warning: Six Degrees of Climate Emergency** - Mark Lynas 2020-04-16

This book must not be ignored. It really is our final warning. Mark Lynas delivers a vital account of the future of our earth, and our civilisation, if current rates of global warming persist. And it's only looking

worse.

*Environmental Science (First Edition)* - Dork Sahagian 2014-08-08

"A User's Guide for Planet Earth" focuses on the fundamental components of Earth's environmental systems, their interactions, and the way society affects and is affected by alterations in climate, ecosystems, hydrology, and the many other factors that determine our environment. Rather than attempting to include an overwhelming series of environmental anecdotes and peripheral information, this text distills the essential concepts involved in environmental science into a readily understandable and easily digestible form. This will keep students and their professors up to date with the latest understanding of the processes that maintain environmental goods and services, that drive alterations in the earth system, and that control the ways that the environment behaves as an integrated system at all scales. Students will explore the role of scientific insight in environmental science, and how emerging ideas make it possible to solve problems rooted in the past. "A User's Guide for Planet Earth" is written for introductory Environmental Science courses, with college freshmen in mind. The material is closely aligned with course content, and the clear, concise style of the text is designed to give students an excellent understanding of important concepts. Webinar Professor Sahagian discusses his teaching philosophy with David Blockstein, Senior Scientist with the National Council for Science and the Environment (NCSE) and Executive Secretary of the Council of Environmental Deans and Directors (CEDD). Watch the webinar. Professor Sahagian is an internationally recognized Earth and environmental scientist and shared Nobel Peace Prize winner. He earned his B.S. in Physics at Rensselaer Polytechnic Institute, his M.S. in Geosciences at Rutgers, and his Ph.D. in Geophysics from the University of Chicago. He served as a NORDA Oceanographer at Dartmouth College; an Associate Research Scientist at Lamont-Doherty, Columbia University; and a Research Scientist at the Byrd Polar Research Center, Ohio State University. He was the Executive Director of The Global Analysis, Integration, and Modeling Task Force of the International Geosphere Biosphere Program at the Institute for the Study of Earth, Oceans, and Space at the University of New Hampshire before moving to Lehigh University to direct the Environmental Initiative, as well as develop and teach the introductory course in Environmental Science. Part of his research led him to coauthor the pivotal reports of the Intergovernmental Panel on Climate Change (IPCC), which was jointly awarded the 2007 Nobel Peace Prize with former vice president Al Gore. Professor Sahagian's areas of research include paleoclimatology, volcanology, global change, stratigraphy, geo-dynamics and tectonics, global hydrology, and sea level.

**Environmental Science for Grades 6-12** - Jorge Valenzuela 2022-08-15

Apply high-quality project-based learning strategies to create lessons and units that help students solve a variety of urgent environmental problems. Environmental science (ES) education is essential to preparing today's students for the future. We must create opportunities for hands-on investigations that explore complex environmental problems in order to find solutions and meet the challenges of our changing world. Educators looking to bring ES-focused experiences to their students can turn to technology and social-emotional learning (SEL) strategies to connect students with real-world situations and citizen science opportunities, while fostering empathy and a love for the natural world. Project-based learning (PBL), with its emphasis on inquiry and authentic challenges, can be an effective approach to teaching ES. Those new to PBL may not feel they have adequate training. Likewise, teachers who haven't taught ES may question how to incorporate it into their curriculum. This book addresses both situations, providing practical guidance for teachers, along with examples of technology-rich, learner-centered student projects addressing timely topics such as sustainability, human impact and climate change. This book: • Helps teachers design learning experiences that model authentic problems and processes practiced by scientists and engineers, to prepare students for future careers in science. • Addresses diversity, equity and inclusion in ES, and shares resources and strategies for addressing racial equity in ES. • Introduces facilitation techniques that redefine the teacher's traditional role as one that supports increased student agency, the development of critical thinking skills and an expanded awareness of their place in the global community. • Includes a chapter that focuses on applying the principles and strategies shared in the book in an online learning environment. • Addresses Next Generation Science Standards (NGSS) topics in environmental science and is aligned to the ISTE Standards for Educators. PBL is one of the best ways for students to explore complex processes and concepts, and this book will help teachers leverage this approach to

empower students to take action toward a better future and world.

*The Mess That We Made* - Michelle Lord 2020-01-01

The Mess That We Made explores the environmental impact of trash and plastic on the ocean and marine life, and it inspires kids to do their part to combat pollution. Simple, rhythmic wording builds to a crescendo ("This is the mess that we made. These are the fish that swim in the mess that we made.") and the vibrant digital artwork captures the disaster that is the Great Pacific Garbage Patch. Children can imagine themselves as one of the four multi-ethnic occupants of the little boat surrounded by swirling plastic in the middle of the ocean, witnessing the cycle of destruction and the harm it causes to plants, animals, and humans. The first half of the book portrays the growing magnitude of the issue, and the second half rallies children and adults to make the necessary changes to save our oceans. Facts about the Great Pacific Garbage Patch, ocean pollution, and how kids can help are included in the back matter.

**Phenology: An Integrative Environmental Science** - Mark D. Schwartz 2011-04-28

Phenology is the study of plant and animal life cycle events, which are triggered by environmental changes, especially temperature. Wide ranges of phenomena are included, from first openings of leaf and flower buds, to insect hatchings and return of birds. Each one gives a ready measure of the environment as viewed by the associated organism. Thus, phenological events are ideal indicators of the impact of local and global changes in weather and climate on the earth's biosphere. Assessing our changing world is a complex task that requires close cooperation from experts in biology, climatology, ecology, geography, oceanography, remote sensing and other areas. This book is a synthesis of current phenological knowledge, designed as a primer on the field for global change and general scientists, students and interested members of the public. With contributions from a diverse group of over fifty phenological experts, covering data collection, current research, methods and applications, it demonstrates the accomplishments and potential of phenology as an integrative environmental science.

*Environmental Science and Theology in Dialogue* - Russell A. Butkus 2011

This work demonstrates how understanding environmental science and theology can provide new resources for sustaining the Earth. With sidebars, discussion questions, and recommended readings, the book provides students with a text that nurtures both critical thinking and ethical action.

**Environmental Science** - William P. Cunningham 2006-06-01

Environmental Science, Ninth Edition, is a comprehensive presentation of environmental science for non-science majors which emphasizes critical thinking, environmental responsibility, and global awareness. This book is intended for use in a one- or two-semester course in environmental science, human ecology, or environmental studies at the college or advanced placement high school level. The goal of this book is to provide an up-to-date, introductory global view of essential themes in environmental science along with emphasis on details and case studies that will help students process and retain the general principles. Because most students who will use this book are freshman or sophomore non-science majors, the authors make the text readable and accessible without technical jargon or a presumption of prior science background. At the same time, enough data and depth are presented to make this book suitable for many upper-division classes and a valuable resource for students who will keep it in their personal libraries after their formal studies are completed.

**High School Environmental Science 2011 Student Edition (Hardcover) Grade11** - Jay Withgott 2011-06-30

"Your World, Your Turn" is not just a subtitle, it's a philosophy. Jay Withgott wants students to feel empowered, to feel that their actions can make a difference -- from measuring their own ecological footprint to understanding the impact of society upon the environment. - Back cover.

*Environmental Science* - B. J. Smith 2014-01-09

First published in 1983. Routledge is an imprint of Taylor & Francis, an informa company.

*Environmental Science and Sustainability* - Sherman, Daniel J. 2020-01-13

Environmental Science and Sustainability helps students discover their role in the environment and the impact of their choices. Authors David Montgomery and Daniel Sherman bring scientific and environmental policy expertise to a modern treatment of environmental science; in addition to teaching climate change, sustainability, and resilience, they reveal how our personal decisions affect our planet and our lives.

**Environmental ScienceBites** - Kylieenne A. Clark 2015-09-15

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.

**Environmental Science (Speedy Study Guides)** - Speedy Publishing 2015-04-29

Do your part in caring for the environment by first understanding the core elements of environmental science. This straightforward study guide will help you come into terms with the problems that change the environment, some of which you may have contributed to. Also, know how science can help correct these problems so you can better support research and help raise public awareness too.

*Environmental Science* - Barbara W. Murck 2005-05-30

The only popular study guide available on environmental science This new Wiley Self-Teaching Guide introduces learners to all the basics of environmental science, from air pollution to the water cycle, covering both natural systems and human impacts on the environment. Using quick quizzes and self-tests to reinforce key concepts, Environmental Science walks students through this interdisciplinary topic with clarity and thoroughness. With 125 photographs and illustrations, this book is a unique and valuable resource for anyone interested in learning more about-and in preserving-our green home.

**Critical Political Ecology** - Timothy Forsyth 2004-11-23

Critical Political Ecology brings political debate to the science of ecology. As political controversies multiply over the science underlying environmental debates, there is an increasing need to understand the relationship between environmental science and politics. In this timely and wide-ranging volume, Tim Forsyth uses an innovative approach to apply political analysis to ecology, and demonstrates how more politicised approaches to science can be used in environmental decision-making. Critical Political Ecology examines: \*how social and political factors frame environmental science, and how science in turn shapes politics \*how new thinking in philosophy and sociology of science can provide fresh insights into the biophysical causes and impacts of environmental problems \*how policy and decision-makers can acknowledge the political influences on science and achieve more effective public participation and governance.

*Environmental Science: Foundations and Applications* - Andrew Friedland 2011-02-25

Watch a video clips and view sample chapters at [www.whfreeman.com/friedlandpreview](http://www.whfreeman.com/friedlandpreview) Created for non-majors courses in environmental science, environmental studies, and environmental biology, Environmental Science: Foundations and Applications emphasizes critical thinking and quantitative reasoning skills. Students learn how to analyze graphs, measure environmental impact on various scales, and use simple calculations to understand key concepts. With a solid understanding of science fundamentals and how the scientific method is applied, students are able to evaluate information objectively and draw their own conclusions. The text equips students to interpret the wealth of data they will encounter as citizens, professionals, and consumers.

**Environmental Science** - Forrest M. Mims III 2019-11-07

What interests you most about the environment? Are you concerned about water pollution? Air quality? Energy production? Forest fires? Space exploration? Your interests and questions matter. Illustrated with more than 800 photographs, charts, and graphics, this practical guide allows you to start with your curiosity and follow your questions to answers about the environment. The book is organized into units based on the five classical scientific elements of matter: Air, Earth, Fire, Space, and Water. With special call-outs on positive and negative environmental impacts, you'll be challenged to consider your own role in caring for and understanding the environment.

**Environmental Science** - Frank R. Spellman 2013

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 1. How energy conversions underlie all ecological processes 2. How the earth's environment functions as an integrated system 3. How human activities alter natural systems 4. How the role of culture, social, and economic factors is vital to the development of solutions 5. 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 and Technology* - Frank R. Spellman 2006-06-02

Designed for both professional and student use, the new Second Edition includes recent improvements in the application of new technologies and materials on the environment. It also places greater emphasis on the three environmental media of air, water, and soil and discusses how technology can be used to mitigate contamination of all three.

*Biochar: Fundamentals and Applications in Environmental Science and Remediation Technologies* - 2021-11-11

*Biochar: Fundamentals and Applications in Environmental Science and Remediation Technologies*, Volume Six provides readers with the fundamentals of scientific and technological aspects of biochar application in stormwater treatment, its use in contaminant removal, greenhouse gas mitigation, as landfill cover material, and new environmental and agronomic applications. Chapters in this new release cover Biochar application for soil remediation in a redox-sensitive environment, Remediation of heavy metal contaminated soil: Role of biochar, Role of biochar as a cover material in Landfill waste disposal system- Perspective from Unsaturated soil mechanics, Biochar in soil re-engineering, Green remediation of contaminated agricultural land using biochar, and more. Additional chapters cover the Impact of biochars on redox processes in soils, Biochar for manipulation of manure properties, A relationship paradigm between biochar amendments and green house gas emissions, Biochar amalgamation with clay: Enhanced performance for environmental remediation, Functionalization of biochar using microbial consortia, and the Potential role of biochar to mitigate the negative impacts of climate change on water quality. Provides up to-date information on the use of biochar for contaminant remediation, as landfill cover material, and as a tool for energy transition Includes the aspect of biochar's use in mitigating impacts of climate change and how manure properties can be altered through biochar addition Covers the role of microbial consortia on biochar functionalization

*Field and Laboratory Activities for Environmental Science* - Eldon Enger 2012-12-05

The major objectives of this manual are to provide students with hands-on experiences that are relevant, easy to understand, applicable to the student's life, and presented in an interesting, informative format. Ranging from field and lab experiments to conducting social and personal assessments of the environmental impact of human activities, the manual presents something for everyone, regardless of the budget or facilities of each class. These labs are grouped by categories that can be used in conjunction with any introductory environmental textbook.

**Environmental Science** -

*Environmental Systems Science* - Daniel Vallero 2021-05-27

*Environmental Systems Science: Theory and Practical Applications* looks at pollution and environmental quality from a systems perspective. Credible human and ecological risk estimation and prediction methods are described, including life cycle assessment, feasibility studies, pollution control decision tools, and approaches to determine adverse outcome pathways, fate and transport, sampling and analysis, and cost-effectiveness. The book brings translational science to environmental quality, applying groundbreaking methodologies like informatics, data mining, and applications of secondary data systems. Multiple human and ecological variables are introduced and integrated to support calculations that aid environmental and public health decision making. The book bridges the perspectives of scientists, engineers, and other

professionals working in numerous environmental and public health fields addressing problems like toxic substances, deforestation, climate change, and loss of biological diversity, recommending sustainable solutions to these and other seemingly intractable environmental problems. The causal agents discussed include physical, chemical, and biological agents, such as per- and polyfluoroalkyl substances (PFAS), SARS-CoV-2 (the COVID-19 virus), and other emerging contaminants. Provides an optimistic and interdisciplinary approach, underpinned by scientific first principles and theory to evaluate pollutant sources and sinks, applying biochemodynamic methods, measurements and models Deconstructs prior initiatives in environmental assessment and management using an interdisciplinary approach to evaluate what has worked and why Lays out a holistic understanding of the real impact of human activities on the current state of pollution, linking the physical sciences and engineering with socioeconomic, cultural perspectives, and environmental justice Takes a life cycle view of human and ecological systems, from the molecular to the planetary scale, integrating theories and tools from various disciplines to assess the current and projected states of environmental quality Explains the elements of risk, reliability and resilience of built and natural systems, including discussions of toxicology, sustainability, and human-pollutant interactions based on spatial, biological, and human activity information, i.e. the exposome *Gaia* - James Lovelock 2016

First published 1979, first issued as an Oxford University paperback 1982.

**Environmental Science** - Eldon D. Enger 2017-12

This full-color, introductory environmental science text is known for being concise, conceptual, and value-priced. The approach and reading level cover the basic concepts without overloading students with too much detail. The authors reinforce the text's central theme of "interrelationships" by providing a historical perspective, information on economic and political realities, discuss the role of different social experiences, and integrate this with the crucial science to describe the natural world and how we affect it.

**Environmental Science and Technology** - Stanley E. Manahan 1997-08-26

This broad overview covers the four traditional spheres of the environment: water, air, earth, and life, and introduces a fifth sphere - the "anthrosphere" - which the author defines as the sphere of human activities, especially technology, that affect the earth. *Environmental Science and Technology* is organized into six major areas; one for each of the five spheres and one introductory section that explains the fundamentals of chemistry, biology, biochemistry, and environmental chemistry. Throughout the book, the relationships among the five spheres and their connections to the sciences are emphasized. For better or worse, technology is closely intertwined with the other four spheres. Humans utilize resources, manufacture goods, practice agriculture, and engage in other activities that have profound effects on the planet. This unique text/reference takes a realistic look at the environmental effects of human activities, and shows how constructively directed technology can have a beneficial effect on the Earth.

**Innovation Strategies in Environmental Science** - Charis M. Galanakis 2019-08-20

*Innovation Strategies in Environmental Science* introduces and examines economically viable innovations to optimize performance and sustainability. By exploring short and long-term strategies for the development of networks and platform development, along with suggestions for open innovation, chapters discuss sustainable development ideas in key areas such as urban management/eco-design and conclude with case studies of end-user-inclusive strategies for the water supply sector. This book is an important resource for environmental and sustainability scientists interested in introducing innovative practices into their work to minimize environmental impacts. Presents problem-oriented research and solutions Offers strategies for minimizing or avoiding the environmental impacts of industrial production Includes case studies on topics such as end user-inclusive innovation strategies for the water supply sector

*Principles of Environmental Science* - William P. Cunningham 2020

Rather than the 25 to 30 chapters found in most environmental science textbooks, the authors have limited *Principles of Environmental Science: Inquiry and Applications* to 16 chapters--perfect for the one-semester, non-majors environmental science course. True to its title, the goal of this concise text is to provide an up-to-date, introductory view of essential themes in environmental science along with offering students numerous opportunities to practice scientific thinking and active learning.