

Essential Environmental Science Edward Keller

The Dictionary of Sustainability provides clear and accurate definitions of the extensive vocabulary that has developed in this emerging and interdisciplinary field, saving considerable time from searching through the massive quantity of information of differing degrees of quality that is available through the Internet. Providing authoritative definitions of standard terms used by scholars and practitioners it provides a clear and thorough conceptual framework and ensures those delving into topics for the first time, or returning to them, can quickly find what they need. It also contains careful use of cross-references, and includes several expanded entries to provide readers with nuanced understanding of important topics. The dictionary will be essential reading for all students studying sustainability topics, as well as a handy reference for practitioners wanting to make a sustainable difference in the workplace.

The historian and author of *Lillian Gilbreth* examines the "Great Man" myth of science with profiles of women scientists from Marie Curie to Jane Goodall. Why is science still considered to be predominantly male profession? In *The Madame Curie Complex*, Julie Des Jardin dismantles the myth of the lone male genius, reframing the history of science with revelations about women's substantial contributions to the field. She explores the lives of some of the most famous female scientists, including Jane Goodall, the eminent primatologist; Rosalind Franklin, the chemist whose work anticipated the discovery of DNA's structure; Rosalyn Yalow, the Nobel Prize-winning physicist; and, of course, Marie Curie, the Nobel Prize-winning pioneer whose towering, mythical status has both empowered and stigmatized future generations of women considering a life in science. With lively anecdotes and vivid detail, *The Madame Curie Complex* reveals how women scientists have changed the course of science—and the role of the scientist—throughout the twentieth century. They often asked different questions, used different methods, and came up with different, groundbreaking explanations for phenomena in the natural world.

Provides an analysis of the nature vs. nurture debate, arguing for an end to the "either/or" nature of the discussions in favor of a recognition that environmental and genetic factors interact throughout life to form human traits.

Fungi research and knowledge grew rapidly following recent advances in genetics and genomics. This book synthesizes new knowledge with existing information to stimulate new scientific questions and propel fungal scientists on to the next stages of research. This book is a comprehensive guide on fungi, environmental sensing, genetics, genomics, interactions with microbes, plants, insects, and humans, technological applications, and natural product development.

A reprint of the 1976 Macmillan edition. This fictional outline of a modern utopia has been a center of controversy ever since its publication in 1948. Set in the United States, it pictures a society in which human problems are solved by a scientific technology of human conduct.

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This unique addition to reference literature provides an introduction to the major concepts and contemporary issues that are essential for students of environmental science and environmental studies to know. With over 200 entries authored by world-class names like Anthony Brazel, John Day and Edward Keller, this text is divided into six sections: Environmental Science, Environments, Paradigms & Concepts, Processes & Dynamics, Scales & Techniques, and Environmental Issues.

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Essential Environmental Science John Wiley & Sons Incorporated

A revolutionary new approach to ADD/ADHD featuring cutting-edge research and strategies to help readers thrive, by the bestselling authors of the seminal books *Driven to Distraction* and *Delivered from Distraction* “An inspired road map for living with a distractible brain . . . If you or your child suffer from ADHD, this book should be on your shelf. It will give you courage and hope.”—Michael Thompson, Ph.D., New York Times bestselling co-author of *Raising Cain* World-renowned authors Dr. Edward M. Hallowell and Dr. John J. Ratey literally “wrote the book” on ADD/ADHD more than two decades ago. Their bestseller, *Driven to Distraction*, largely introduced this diagnosis to the public and sold more than a million copies along the way. Now, most people have heard of ADHD and know someone who may have it. But lost in the discussion of both childhood and adult diagnosis of ADHD is the potential upside: Many hugely successful entrepreneurs and highly creative people attribute their achievements to ADHD. Also unknown to most are the recent research developments, including innovations that give a clearer understanding of the ADHD brain in action. In *ADHD 2.0*, Drs. Hallowell and Ratey, both of whom have this “variable attention trait,” draw on the latest science to provide both parents and adults with ADHD a plan for minimizing the downside and maximizing the benefits of ADHD at any age. They offer an arsenal of new strategies and lifestyle hacks for thriving with ADHD, including

- Find the right kind of difficult. Use these behavior assessments to discover the work, activity, or creative outlet best suited to an individual’s unique strengths.
- Reimagine environment. What specific elements to look for—at home, at school, or in the workplace—to enhance the creativity and entrepreneurial spirit inherent in the ADHD mind.
- Embrace innate neurological tendencies. Take advantage of new findings about the brain’s default mode network and cerebellum, which confer major benefits for people with ADHD.
- Tap into the healing power of connection. Tips for establishing and maintaining positive connection “the other Vitamind C” and the best antidote to the negativity that plagues so many people with ADHD.
- Consider medication. Gets the facts about the underlying chemistry, side effects, and proven benefits of all the pharmaceutical options. As inspiring as it is practical, *ADHD 2.0* will help you tap into the power of this mercurial condition and find the key that unlocks potential.

The methodological needs of environmental studies are unique in the breadth of research questions that can be posed, calling for a textbook that covers a broad swath of approaches to conducting research with potentially many different kinds of evidence. Written specifically for social science-based research into the environment, this book covers the best-practice research methods most commonly used to study the environment and its connections to societal and economic activities and objectives. Over five key parts, Kanazawa introduces quantitative and qualitative approaches, mixed methods, and the special requirements of interdisciplinary research, emphasizing that methodological practice should be tailored to the specific needs of the project. Within these parts, detailed coverage is provided on key topics including the identification of a research project; spatial analysis;

ethnography approaches; interview technique; and ethical issues in environmental research. Drawing on a variety of extended examples to encourage problem-based learning and fully addressing the challenges associated with interdisciplinary investigation, this book will be an essential resource for students embarking on courses exploring research methods in environmental studies. An examination of Mississippi's Civil War experience in a social, political and military context, this book begins with an introductory overview of the pre-war socio-political climate of the state and ends with a treatment of Mississippi's post-war environment and the rise of Lost Cause mythology, covering pivotal events, issues, and personalities of the period and revealing the experiences of Mississippians as they struggled to deal with the crisis.

Professor Hay (environmental studies, U. of Tasmania) must have been a patient and long-time follower of environmental debate over the last 35 years to have masterfully untangled the myriad and subtle contentions and changes of heart in ecophilosophy, ecofeminism, ecoreligiosity and spirituality, green critiques of science, green politics, philosophies of place, and ecology's relationship to democracy and postmodernism. Hay's Tasmanian provenance seems less weakness than strength since he provides a more international perspective on environmentalism that includes Australia, North America, and Europe. Not only geographically wide-ranging, Hay is ideologically inclusive, bringing into the environmental forum --without apology or pride--discussions among animal rightists and their critics, and assertions that environmental concern is partially pre-rational. Reading Hay's environmental tome is likely to introduce even seasoned readers to new names (Deborah Slicer, John Rodman, Warwick Fox, Stephen Clark, Ariel Salleh) and so, new arguments. Suitable as a primary or secondary text for an advanced undergraduate or graduate class in environmental thought. Annotation copyrighted by Book News, Inc., Portland, OR

In an effort to provide greater awareness of the necessary policy decisions facing our elected and appointed officials, *Energy Policy in the U.S.: Politics, Challenges, and Prospects for Change* presents an overview of important energy policies and the policy process in the United States, including their history, goals, methods of action, and consequences. In the first half of the book, the authors frame the energy policy issue by reviewing U.S. energy policy history, identifying the policy-making players, and illuminating the costs, benefits, and economic and political realities of currently competing policy alternatives. The book examines the stakeholders and their attempts to influence energy policy and addresses the role of supply and demand on the national commitment to energy conservation and the development of alternative energy sources. The latter half of the book delves into specific energy policy strategies, including economic and regulatory options, and factors that influence energy policies, such as the importance of international cooperation. Renewed interest in various renewable and nontraditional energy resources—for example, hydrogen, nuclear fusion, biomass, and tide motion—is examined, and policy agendas are explored in view of scientific, economic, regulatory, production, and environmental constraints. This book provides excellent insight into the complex task of creating a comprehensive energy policy and its importance in the continued availability of energy to power our way of life and economy while protecting our environment and national security.

Essential Environmental Science provides a non-quantitative approach that is based on principles, critical thinking and

the big questions that are driving the field today. It offers a condensed look at the field, covering topics in way that will help readers answer the "big questions." It eliminates more detailed or advanced topics to make the material more accessible while also placing the focus on today's important issues.

The Encyclopedia of Environment and Society brings together multiplying issues, concepts, theories, examples, problems, and policies, with the goal of clearly explicating an emerging way of thinking about people and nature. With more than 1,200 entries written by experts from incredibly diverse fields, this innovative resource is a first step toward diving into the deep pool of emerging knowledge. The five volumes of this Encyclopedia represent more than a catalogue of terms. Rather, they capture the spirit of the moment, a fascinating time when global warming and genetic engineering represent only two of the most obvious examples of socio-environmental issues.

Key concepts in mineralogy and petrology are explained alongside beautiful full-color illustrations, in this concisely written textbook.

Through a series of multidisciplinary readings, Environmental Ethics: The Big Questions contextualizes environmental ethics within the history of Western intellectual tradition and traces the development of theory since the 1970s. Includes an extended introduction that provides an historical and thematic introduction to the field of environmental ethics Features a selection of brief original essays on why to study environmental ethics by leaders in the field Contextualizes environmental ethics within the history of the Western intellectual tradition by exploring anthropocentric (human-centered) and nonanthropocentric precedents Offers an interdisciplinary approach to the field by featuring seminal work from eminent philosophers, biologists, ecologists, historians, economists, sociologists, anthropologists, nature writers, business writers, and others Designed to be used with a web-site which contains a continuously updated archive of case studies: <http://environmentalethics.info/>

Why are so many American children learning so much misinformation about climate change? Investigative reporter Katie Worth reviewed scores of textbooks, built a 50-state database, and traveled to a dozen communities to talk to children and teachers about what is being taught, and found a red-blue divide in climate education. More than one-third of young adults believe that climate change is not man-made, and science teachers who teach global warming are being contradicted by history teachers who tell children not to worry about it. Who has tried to influence what children learn, and how successful have they been? Worth connects the dots to find out how oil corporations, state legislatures, school boards, and textbook publishers sow uncertainty, confusion, and distrust about climate science. A thoroughly researched, eye-opening look at how some states do not want children to learn the facts about climate change.

Unique in the reference literature, this Companion provides students with an introduction to all the major concepts and

contemporary issues in the environmental sciences. The text is divided into six sections (Environmental Sciences, Environments, Paradigms and Concepts, Processes and Dynamic, Scales and Techniques, Environmental Issues), with over 200 entries alphabetically organized and authored by key names in the environmental science disciplines. Entries are concise, informative, richly visual and fully referenced and cross referenced. They introduce key concepts and processes that are included in the index, cite relevant websites, and reflect the latest thinking.

This edition features the exact same content as the traditional text in a convenient, three-hole- punched, loose-leaf version. Books à la Carte also offer a great value—this format costs 35% less than a new textbook. This text focuses on helping non-science majors develop an understanding of how geology and humanity interact. Ed Keller—the author who first defined the environmental geology curriculum—focuses on five fundamental concepts of environmental geology: Human Population Growth, Sustainability, Earth as a System, Hazardous Earth Processes, and Scientific Knowledge and Values. These concepts are introduced at the outset of the text, integrated throughout the text, and revisited at the end of each chapter. The Fifth Edition emphasizes currency, which is essential to this dynamic subject, and strengthens Keller's hallmark “Fundamental Concepts of Environmental Geology,” unifying the text's diverse topics while applying the concepts to real-world examples.

Modern American Environmentalists profiles the lives and contributions of nearly 140 major figures during the twentieth-century environmental movement. Included are iconic environmentalists such as Rachel Carson, E. O. Wilson, Gifford Pinchot, and Al Gore, and important but less expected names, including John Steinbeck and Allen Ginsberg. The entries recount how each individual became active in environmental conservation, detail his or her significant contributions, trace the influence of each on future efforts, and discuss the person's legacy. The individuals selected for the book displayed either an unparalleled commitment to the conservation, preservation, restoration, and enhancement of the natural environment or made a major contribution to the growth of environmentalism during its first century. With a foreword by environmental historian Everett I. Mendolsohn, a time line of key environmental events, a bibliography of groundbreaking works, and an index organized by specialization, this biographical encyclopedia is a handy and complete guide to the major people involved in the modern American environmental movement. -- Mark Harvey

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.

One of the cornerstones of life's wonders is the vast array of species filling the planet. From plants to animals to humans, there is no shortage of beings to provide 'spice of life' variety is said to be. Periodically, scientists announce the discovery of a 'new' form of life, so it seems as if Earth is capable of producing new species just to keep us on our toes. At times, the immense breadth of living things can even feel overwhelming, as one pauses to ponder how numerically insignificant humans are when compared to the insect population. Given the

biological diversity of the planet, it is incumbent upon humans to safeguard the natural beauty of the environment. To that end, conservation takes on special importance, necessitating the balancing of industrial expansion with preserving the flora and fauna surrounding us. This book is an important tool in understanding and researching the many different life forms spanning the globe. Collected here is a substantial and carefully selected listing of relevant literature on biological diversity and its conservation. Following this bibliography are author, title, and subject indexes to allow for further access to this information. The sheer bulk of the works about biological diversity can be so intimidating that a book such as this one becomes useful in sorting through the resources about the importance of life's variety.

This study offers a striking new interpretation of Kant's theory of self-consciousness.

Reflexivity – the critical examination of how we see the world – is integral to good research practice. From this state-of-the-art, accessible tour of its history and contemporary relevance, readers will learn of its importance to social research and to society generally. The text introduces a host of influential thinkers and their key ideas on reflexivity, and incorporates examples from a range of disciplines and research settings. Drawing on the authors' extensive experience of real research settings, this book: Pinpoints the importance of reflexivity in social research Demonstrates its relevance to everyday life Firmly locates the concept in the history of ideas Explores key questions about the bases of knowledge and understanding Presents key thinkers, concepts and issues in easy-to-understand learning boxes The result is a book that provides students and researchers in the social sciences with the knowledge and understanding necessary not only to examine the role of reflexivity in contemporary life, but to apply it in their own research practice.

This text is an unbound, binder-ready edition. Environmental Science: Earth as a Living Planet, Eighth Edition provides emphasis on the scientific process throughout the book gives readers the structure to develop their critical thinking skills. Updated and revised to include the latest research in the field, the eighth edition continues to present a balanced analytical and interdisciplinary approach to the field. New streamlined text clears away the "jargon" to bring the issues and the science to the forefront. The new design and updated image program highlights key points and makes the book easier to navigate.

This open access book brings together research findings and experiences from science, policy and practice to highlight and debate the importance of nature-based solutions to climate change adaptation in urban areas. Emphasis is given to the potential of nature-based approaches to create multiple-benefits for society. The expert contributions present recommendations for creating synergies between ongoing policy processes, scientific programmes and practical implementation of climate change and nature conservation measures in global urban areas. Except where otherwise noted, this book is licensed under a Creative Commons Attribution 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>

A Pulitzer Prize–winning journalist takes readers on a surprising tour of America's biggest export, our most prodigious product, and our greatest legacy: our trash The average American produces 102 tons of garbage across a lifetime and \$50 billion in squandered riches are rolled to the curb each year. But our bins are just the starting point for a strange, impressive, mysterious, and costly journey that may also represent the greatest untapped opportunity of the century. In Garbology, Edward Humes investigates trash—what's in it; how much we pay for it; how we manage to create so much of it; and how some families, communities, and even nations are finding a way back from waste to discover a new kind of

prosperity. Along the way , he introduces a collection of garbage denizens unlike anyone you've ever met: the trash-tracking detectives of MIT, the bulldozer-driving sanitation workers building Los Angeles' Garbage Mountain landfill, the artists residing in San Francisco's dump, and the family whose annual trash output fills not a dumpster or a trash can, but a single mason jar. Garbology reveals not just what we throw away, but who we are and where our society is headed. Waste is the one environmental and economic harm that ordinary working Americans have the power to change—and prosper in the process. Garbology is raising awareness of trash consumption and is sparking community-wide action through One City One Book programs around the country. It is becoming an increasingly popular addition to high school and college syllabi and is being adopted by many colleges and universities for First Year Experience programs.

Natural Hazards: Earth Processes as Hazards, Disasters and Catastrophes, Fourth Edition, is an introductory-level survey intended for university and college courses that are concerned with earth processes that have direct, and often sudden and violent, impacts on human society. The text integrates principles of geology, hydrology, meteorology, climatology, oceanography, soil science, ecology and solar system astronomy. The book is designed for a course in natural hazards for non-science majors, and a primary goal of the text is to assist instructors in guiding students who may have little background in science to understand physical earth processes as natural hazards and their consequences to society. Natural Hazards uses historical to recent examples of hazards and disasters to explore how and why they happen and what we can do to limit their effects. The text's up-to-date coverage of recent disasters brings a fresh perspective to the material. The Fourth Edition continues our new active learning approach that includes reinforcement of learning objective with a fully updated visual program and pedagogical tools that highlight fundamental concepts of the text. This program will provide an interactive and engaging learning experience for your students. Here's how: Provide a balanced approach to the study of natural hazards: Focus on the basic earth science of hazards as well as roles of human processes and effects on our planet in a broader, more balanced approach to the study of natural hazards. Enhance understanding and comprehension of natural hazards: Newly revised stories and case studies give students a behind the scenes glimpse into how hazards are evaluated from a scientific and human perspective; the stories of real people who survive natural hazards, and the lives and research of professionals who have contributed significantly to the research of hazardous events. Strong pedagogical tools reinforce the text's core features: Chapter structure and design organizes the material into three major sections to help students learn, digest, and review learning objectives. This introduction to environmental issues contains five integrating themes: the global scope of environmental issues; the importance of urban environments; sustainability; human population; and the ethical and economic basis for making choices about environmental issues. These themes are introduced at the beginning and are referred to throughout. In

addition, each chapter begins with a case study illustrating the issues discussed.

For many students with no science background, environmental geology may be one of the only science courses they ever take. *Living With Earth: An Introduction to Environmental Geology* is ideal for those students, fostering a better understanding of how they interact with Earth and how their actions can affect Earth's environmental health. The informal, reader-friendly presentation is organized around a few unifying perspectives: how the various Earth systems interact with one another; how Earth affects people (creating hazards but also providing essential resources); and how people affect Earth. Greater emphasis is placed on environment and sustainability than on geology, unlike other texts on the subject. Essential scientific foundations are presented - but the ultimate goal is to connect students proactively to their role as stakeholders in Earth's future.

An ethologist shows man to be a gene machine whose world is one of savage competition and deceit

Sustainability Principles and Practice gives an accessible and comprehensive overview of the interdisciplinary field of sustainability. The focus is on furnishing solutions and equipping students with both conceptual understanding and technical skills. Each chapter explores one aspect of the field, first introducing concepts and presenting issues, then supplying tools for working toward solutions. Elements of sustainability are examined piece by piece, and coverage ranges over ecosystems, social equity, environmental justice, food, energy, product life cycles, cities, and more. Techniques for management and measurement as well as case studies from around the world are provided. The 3rd edition includes greater coverage of resilience and systems thinking, an update on the Anthropocene as a formal geological epoch, the latest research from the IPCC, and a greater focus on diversity and social equity, together with new details such as sustainable consumption, textiles recycling, microplastics, and net-zero concepts. The coverage in this edition has been expanded to include issues, solutions, and new case studies from around the world, including Europe, Asia, and the Global South. Chapters include further reading and discussion questions. The book is supported by a companion website with online links, annotated bibliography, glossary, white papers, and additional case studies, together with projects, research problems, and group activities, all of which focus on real-world problem-solving of sustainability issues. This textbook is designed to be used by undergraduate college and university students in sustainability degree programs and other programs in which sustainability is taught.

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