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K6XPV3 - RICHARD JAIDYN

The solution for chronic inflammation, regarded as the cause of the most common modern diseases, has been identified! Earthing introduces the planet's powerful, amazing, and overlooked natural healing energy and how people anywhere can readily connect to it. This never-before-told story, filled with fascinating research and real-life testimonials, chronicles a discovery with the potential to create a global health revolution.

Addressing the growing global concern for sustainable engineering, *Materials and the Environment, 2e* is the only book devoted exclusively to the environmental aspects of materials. It explains the ways in which we depend on and use materials and the consequences these have, and it introduces methods for thinking about and designing with materials within the context of minimizing environmental impact. Along with its noted in-depth coverage of material consumption, the material life-cycle, selection strategies, and legislative aspects, the second edition includes new case studies, important new chapters on *Materials for Low Carbon Power* and *Material Efficiency*, all illustrated by in-text examples and expanded exercises. This book is intended for instructors and students as well as materials engineers and product designers who need to consider the environmental implications of materials in their designs. Introduces methods and tools for thinking about and designing with materials within the context of their role in products and the environmental consequences Contains numerous case studies showing how the methods discussed in the book can be applied to real-world situations Includes full-color data sheets for 40 of the most widely used materials, featuring such environmentally relevant information as their annual production and reserves, embodied energy and process energies, carbon footprints, and recycling data New to this edition: New chapter of Case Studies of Eco-audits illustrating the rapid audit method New chapter on *Materials for Low Carbon Power* examines the consequences for materials supply of a major shift from fossil-fuel based power to power from renewables New chapter exploring *Material Efficiency*, or design and management for manufacture to provide the services we need with the least production of materials Recent news-clips from the world press that help place materials issues into a broader context. are incorporated into all chapters End-of-chapter exercises have been greatly expanded The datasheets of Chapter 15 have been updated and expanded to include natural and man-made fibers

The U.S. scientific community has long led the world in research on such areas as public health, environmental science, and issues affecting quality of life. These scientists have produced landmark studies on the dangers of DDT, tobacco smoke, acid rain, and global warming. But at the same time, a small yet potent subset of this community leads the world in vehement denial of these dangers. *Merchants of Doubt* tells the story of how a loose-knit group of high-level scientists and scientific advisers, with deep connections in politics and industry, ran effective campaigns to mislead the public and deny well-established scientific knowledge over four decades. Remarkably, the same individuals surface repeatedly—some of the same figures who have claimed that the science of global warming is "not settled" denied the truth of studies linking smoking to lung cancer, coal smoke to acid rain, and CFCs to the ozone hole. "Doubt is our product," wrote one tobacco executive. These "experts" supplied it. Naomi Oreskes and Erik M. Conway, historians of science, roll back the rug on this dark corner of the American scientific community, showing how ideology and corporate interests, aided by a too-compliant media, have skewed public understanding of some of the most pressing issues of our era.

Case Studies for Integrating Science and the Global Environment is designed to help students of the environment and natural resources make the connections between their training in science and math and today's complex environmental issues. The book provides an opportunity for students to apply important skills, knowledge, and analytical tools to understand, evaluate, and propose solutions to today's critical environmental issues. The heart of the book includes four major content areas: water resources; the atmosphere and air quality; ecosystem alteration; and global resources and human needs. Each of these sections features in-depth case studies covering a range of issues for each resource, offering rich opportunities to teach how various scientific disciplines help inform the issue at hand. Case studies provide readers with experience in interpreting real data sets and considering alternate explanations for trends shown by the data. This book helps prepare students for careers that require collaboration with stakeholders and co-workers from various disciplines. Includes global case studies using real data sets that allow readers to practice interpreting data and evaluating alternative explanations Focuses on critical skills and knowledge, encouraging readers to apply science and math to real world problems Employs a system-based approach, linking air, water, and land resources to help readers understand that cause-effect may be complex and solutions to environmental problems require multiple perspectives Includes special features such as links to video clips of scientists at work, boxed information, a solutions section at the end of each case study, and practice exercises

Scientists and key scientific disciplines are at the very heart of the debate about sustainable development. With particular reference to climate change, genetic engineering, and toxic chemicals, *Jonathan Porritt's* provocative dissection of the risks and benefits of scientific advance is essential reading, not only for scientists and environmentalists but also for everyone concerned about our future world.

Environmental and Pollution Science, Third Edition, continues its tradition on providing readers with the scientific basis to understand, manage, mitigate, and prevent pollution across the environment, be it air, land, or water. Pollution originates from a wide variety of sources, both natural and man-made, and occurs in a wide variety of forms including, biological, chemical, particulate or even energy, making a multivariate approach to assessment and mitigation essential for success. This third edition has been updated and revised to include topics that are critical to addressing pollution issues, from human-health impacts to environmental justice to developing sustainable solutions. *Environmental and Pollution Science, Third Edition* is designed to give readers the tools to be able to understand and implement multi-disciplinary approaches to help solve current and future environmental pollution problems. Emphasizes conceptual understanding of environmental systems and can be used by students and professionals from a diversity of backgrounds focusing on the environment Covers many aspects critical to assessing and managing environmental pollution including character-

ization, risk assessment, regulation, transport and fate, and remediation or restoration New topics to this edition include *Ecosystems and Ecosystem Services*, *Pollution in the Global System*, *Human Health Impacts*, the interrelation between *Soil and Human Health*, *Environmental Justice and Community Engagement*, and *Sustainability and Sustainable Solutions* Includes color photos and diagrams, chapter questions and problems, and highlighted key words

Environment: The Science behind the Stories (subscription) 5/e, continues to revolutionize the environmental science course with integrated central case studies and real-life stories that provide you with a tangible and engaging framework for understanding science. The newly revised Fifth Edition offers a highly effective integration between text and media to emphasize scientific literacy and data analysis skills and encourages you to think critically about environmental issues.

The politics of scientific advice across four environmental conflicts in Chile, when the state acted as a "neutral broker" rather than protecting the common good. In *Science and Environment in Chile*, *Javiera Barandiarán* examines the consequences for environmental governance when the state lacks the capacity to produce an authoritative body of knowledge. Focusing on the experience of Chile after it transitioned from dictatorship to democracy, she examines a series of environmental conflicts in which the state tried to act as a "neutral broker" rather than the protector of the common good. She argues that this shift in the role of the state—occurring in other countries as well—is driven in part by the political ideology of neoliberalism, which favors market mechanisms and private initiatives over the actions of state agencies. Chile has not invested in environmental science labs, state agencies with in-house capacities, or an ancillary network of trusted scientific advisers—despite the growing complexity of environmental problems and increasing popular demand for more active environmental stewardship. Unlike a high modernist "empire" state with the scientific and technical capacity to undertake large-scale projects, Chile's model has been that of an "umpire" state that purchases scientific advice from markets. After describing the evolution of Chilean regulatory and scientific institutions during the transition, *Barandiarán* describes four environmental crises that shook citizens' trust in government: the near-collapse of the farmed salmon industry when an epidemic killed millions of fish; pollution from a paper and pulp mill that killed off or forced out thousands of black-neck swans; a gold mine that threatened three glaciers; and five controversial mega-dams in Patagonia.

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.

In an era when pressing environmental problems make collaboration across the divide between sciences and arts and humanities essential, this book presents the results of a collaborative analysis by an anthropologist and a physicist of four key junctures between science, society, and environment. The first focuses on the systemic bias in science in favour of studying esoteric subjects as distinct from the mundane subjects of everyday life; the second is a study of the fire-climax grasslands of Southeast Asia, especially those dominated by *Imperata cylindrica* (sword grass); the third reworks the idea of 'moral economy', applying it to relations between environment and society; and the fourth focuses on the evolution of the global discourse of the culpability and responsibility of climate change. The volume concludes with the insights of an interdisciplinary perspective for the natural and social science of sustainability. It argues that failures of conservation and development must be viewed systemically, and that mundane topics are no less complex than the more esoteric subjects of science. The book addresses a current blind spot within the academic research community to focusing attention on the seemingly common and mundane beliefs and practices that ultimately play the central role in the human interaction with the environment. This book will benefit students and scholars from a number of different academic disciplines, including conservation and environment studies, development studies, studies of global environmental change, anthropology, geography, sociology, politics, and science and technology studies.

This inspiring book presents the true stories of 12 people from across North America who have done great things for the environment. Heroes include a teenage girl who figured out how to remove an industrial pollutant from the Ohio River, a Mexican superstar wrestler who works to protect turtles and whales, and a teenage boy from Rhode Island who helped his community and his state develop effective e-waste recycling programs. Plenty of photographs and illustrations bring each compelling story vividly to life.

Describes the relationship between the environmental sciences and society.

"With this volume, we aim to meet the needs of instructors who favor a more succinct and affordable book. We have distilled the most essential content from our full-length book, *Environment: The Science behind the Stories*, now in its sixth edition. We have streamlined our material, updated our coverage, and carefully crafted our writing to make *Essential Environment* every bit as readable, informative, and engaging as its parent volume" --

WHERE DOES YOUR CHOCOLATE COME FROM? DOES IT MAT TER IF YOUR COFFEE IS FAIR TRADE OR NOT? It matters - more than you might think. *Julie Clawson* takes us on a tour of everyday life and shows how our ordinary lifestyle choices have big implications for justice around the world. She unpacks how we get our food and clothing and shows us the surprising costs of consumer waste. How we live can make a difference not only for our own health but also for the well-being of people across the globe. The more sustainable our lifestyle, the more just our world will be. Everyday justice is one way of loving God and loving our neighbors. So don't panic. We can live more ethically, through the little and big decisions we make every day. Find out how.

This fifth edition continues to build chapters around important US and globally recognised cases to present the content of the chapter and make science memorable. A focus on data and critical thinking is improved, with the addition of hands-on activities featured in each chapter.

Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

We are all concerned by the environmental threats facing us today. Environmental issues are a major area of concern for policy makers, industrialists and public groups of many different kinds. While science seems central to our understanding of such threats, the statements of scientists are increasingly open to challenge in this area. Meanwhile, citizens may find themselves labelled as 'ignorant' in environmental matters. In *Citizen Science* Alan Irwin provides a much needed route through the fraught relationship between science, the public and the environmental threat.

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 exposure

Changing relations between science and democracy – and controversies over issues such as climate change, energy transitions, genetically modified organisms and smart technologies – have led to a rapid rise in new forms of public participation and citizen engagement. While most existing approaches adopt fixed meanings of 'participation' and are consumed by questions of method or critiquing the possible limits of democratic engagement, this book offers new insights that rethink public engagements with science, innovation and environmental issues as diverse, emergent and in the making. Bringing together leading scholars on science and democracy, working between science and technology studies, political theory, geography, sociology and anthropology, the volume develops relational and co-productionist approaches to studying and intervening in spaces of participation. New empirical insights into the making, construction, circulation and effects of participation across cultures are illustrated through examples ranging from climate change and energy to nanotechnology and mundane technologies, from institutionalised deliberative processes to citizen-led innovation and activism, and from the global north to global south. This new way of seeing participation in science and democracy opens up alternative paths for reconfiguring and remaking participation in more experimental, reflexive, anticipatory and responsible ways. This ground-breaking book is essential reading for scholars and students of participation across the critical social sciences and beyond, as well as those seeking to build more transformative participatory practices.

Health and the environment are important learning areas in science education and their significance is growing. Not only do they have high social relevance, but they are also close to students' interests and needs. They provide many opportunities to unlock science with questions that are personally relevant to boys and girls and that inspire them to engage in science. This book contains a selection of papers from prominent professionals in science, health and environmental education, who reflect on science education, each from their specific point of view. The core idea is to present well-founded perspectives on how science education may benefit from challenges stemming from both health and environmental education. Specific reasons are discussed as to why these two areas are particularly legitimized to challenge science education, and their potential impact on a revision of science education is evaluated. A new pedagogy for science|environment|health that yields interesting and relevant science education for students and teachers, and addresses the grand challenges of this century: what an attractive and rewarding project! The book will motivate teachers, teacher educators and science education researchers to take part in this on-going project.

"Unsettled is a remarkable book—probably the best book on climate change for the intelligent layperson—that achieves the feat of conveying complex information clearly and in depth." —Claremont Review of Books "Surging sea levels are inundating the coasts." "Hurricanes and tornadoes are becoming fiercer and more frequent." "Climate change will be an economic disaster." You've heard all this presented as fact. But according to science, all of these statements are profoundly misleading. When it comes to climate change, the media, politicians, and other prominent voices have declared that "the science is settled." In reality, the long game of telephone from research to reports to the popular media is corrupted by misunderstanding and misinformation. Core questions—about the way the climate is responding to our influence, and what the impacts will be—remain largely unanswered. The climate is changing, but the why and how aren't as clear as you've probably been led to believe. Now, one of America's most distinguished scientists is clearing away the fog to explain what science really says (and doesn't say) about our changing climate. In *Unsettled: What Climate Science Tells Us, What It Doesn't, and Why It Matters*, Steven Koonin draws upon his decades of experience—including as a top science advisor to the Obama administration—to provide up-to-date in-

sights and expert perspective free from political agendas. Fascinating, clear-headed, and full of surprises, this book gives readers the tools to both understand the climate issue and be savvy consumers of science media in general. Koonin takes readers behind the headlines to the more nuanced science itself, showing us where it comes from and guiding us through the implications of the evidence. He dispels popular myths and unveils little-known truths: despite a dramatic rise in greenhouse gas emissions, global temperatures actually decreased from 1940 to 1970. What's more, the models we use to predict the future aren't able to accurately describe the climate of the past, suggesting they are deeply flawed. Koonin also tackles society's response to a changing climate, using data-driven analysis to explain why many proposed "solutions" would be ineffective, and discussing how alternatives like adaptation and, if necessary, geoengineering will ensure humanity continues to prosper. *Unsettled* is a reality check buoyed by hope, offering the truth about climate science that you aren't getting elsewhere—what we know, what we don't, and what it all means for our future.

For courses in introductory environmental science. *Help Students Connect Current Environmental Issues to the Science Behind Them Environment: The Science behind the Stories* is a best seller for the introductory environmental science course known for its student-friendly narrative style, its integration of real stories and case studies, and its presentation of the latest science and research. The 6th Edition features new opportunities to help students see connections between integrated case studies and the science in each chapter, and provides them with opportunities to apply the scientific process to environmental concerns. Also available with *Mastering Environmental Science Mastering(tm)* Environmental Science is an online homework, tutorial, and assessment system designed to improve results by helping students quickly master concepts. Students benefit from self-paced tutorials that feature personalized wrong-answer feedback and hints that emulate the office-hour experience and help keep students on track. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts. Note: You are purchasing a standalone product; *Mastering(tm)* Environmental Science does not come packaged with this content. Students, if interested in purchasing this title with *Mastering Environmental Science*, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and *Mastering Environmental Science*, search for: 0134145933 / 9780134145938 Environment: The Science behind the Stories Plus *Mastering Environmental Science* with eText -- Access Card Package consists of: 0134204883 / 9780134204888 Environment: The Science behind the Stories 0134510194 / 9780134510194 *Mastering Environmental Science* with Pearson eText -- ValuePack Access Card -- for Environment: The Science behind the Stories Environment: The Science behind the Stories, 6th Edition is also available via Pearson eText, a simple-to-use, mobile, personalized reading experience that lets instructors connect with and motivate students -- right in their eTextbook. Learn more.

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Water for the Environment: From Policy and Science to Implementation and Management provides a holistic view of environmental water management, offering clear links across disciplines that allow water managers to face mounting challenges. The book highlights current challenges and potential solutions, helping define the future direction for environmental water management. In addition, it includes a significant review of current literature and state of knowledge, providing a one-stop resource for environmental water managers. Presents a multidisciplinary approach that allows water managers to make connections across related disciplines, such as hydrology, ecology, law, and economics Links science to practice for environmental flow researchers and those that implement and manage environmental water on a daily basis Includes case studies to demonstrate key points and address implementation issues

Science for Better Environment: Proceedings of the International Congress on the Human Environment (HESC) focuses on the applications of science in health, human settlements, and protection of the environment. The selection first offers information on the background of HESC, including human settlements and habitat, environment and development, natural disasters, and energy. The text then discusses human's place in natural ecosystems, along with essential properties of ecosystem, auto-regulation in ecosystem, and collapse of symbiosis between human and nature. The compilation presents a summary of the environmental problems in Japan, including progress and outstanding issues in the environmental field. The water pollution from 1970 to 1975 and air pollution control in the country are underscored. The text also explains the development of antipollution laws in the country. Topics include local government antipollution laws, creation of antipollution laws, and clarifying the responsibility of industries in antipollution drives. The book also touches on the role of scientists in the task of achieving a better environment; challenges of stress on human health in urban ecosystems; and environmental problems on a global scale. The selection is a dependable reference for readers interested in the application of science for the improvement of the environment.

The untold history of how people came to conceive, to manage, and to dispute environmental crisis, *The Environment is essential reading* for anyone who wants to help protect the environment from the numerous threats it faces today.

"Environment: The Science Behind the Stories 7e is written for an introductory environmental science course for non-science majors. The "central case studies" hook students with stories at the beginning of a chapter and are threaded throughout. Related "Science Behind the Stories" boxes are integrated throughout to guide students through scientific discoveries, the ongoing pursuit of questions, and an understanding of the process of science. Unfolding stories about real people and places make environmental science memorable to non-science majors, and engage them in the content"--

Students have questions, this book has answers: What is the structure and function of natural systems? Where and how do populations and communities live? How have human impacts altered ecosystems? How can we lessen impacts and create long term solutions? Challenging Times Demand Changing Approaches As the world strives to go green and clean, the discipline of environmental science is poised to take center stage. Its components span many disciplines, subdisciplines, and specialties. Reflecting this, introductory courses are often taught by instructors trained in fields ranging from biology, chemistry, and physics to philosophy and political science. The next generation of environmental scientists, professionals, and decision makers need an understanding of environmental issues that is not only cohesive, but firmly based in science. They need environmental literacy. Why Another Text on Environmental Science? Exploiting the fertile ground provided by young and open minds, *The Environment: Science, Issues, and Solutions* employs a back-to-basics, building-block presentation. The authors' approach is strongly grounded in science, the scientific method, and environmental evidence. They introduce the principles of ecology, then discuss how the increase in human population, expanded technology use, and unprecedented economic development and growth has altered ecosystems resulting in serious local, regional, and global environmental problems. The book makes a case for seeking long-term solutions for the prevention and mitigation of environmental problems in their interconnected, interrelated, and, thus, interdependent ways. Ful-

ly Integrated Text Rigorously Explores Environmental Issues The authors' engaging style piques the interest of students, challenges their critical abilities, and fosters environmental literacy based on a fundamental understanding of the systems of the natural world. The authors emphasize the basics of ecology and use this foundation to build an understanding of major environmental problems and explore methods of mitigating what has been degraded or destroyed. In a logical progression, they provide an understanding of the science, a delineation of the human population and technological growth that has led to environmental issues, and an exploration of solutions to those problems.

The Skeptical Environmentalist challenges widely held beliefs that the environmental situation is getting worse and worse. The author, himself a former member of Greenpeace, is critical of the way in which many environmental organisations make selective and misleading use of the scientific evidence. Using the best available statistical information from internationally recognised research institutes, Bjørn Lomborg systematically examines a range of major environmental problems that feature prominently in headline news across the world. His arguments are presented in non-technical, accessible language and are carefully backed up by over 2500 footnotes allowing readers to check sources for themselves. Concluding that there are more reasons for optimism than pessimism, Bjørn Lomborg stresses the need for clear-headed prioritisation of resources to tackle real, not imagined problems. The Skeptical Environmentalist offers readers a non-partisan stocktaking exercise that serves as a useful corrective to the more alarmist accounts favoured by campaign groups and the media.

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NEW YORK TIMES BESTSELLER For the first time ever, an international coalition of leading researchers, scientists and policymakers has come together to offer a set of realistic and bold solutions to climate change. All of the techniques described here - some well-known, some you may have never heard of - are economically viable, and communities throughout the world are already enacting them. From revolutionizing how we produce and consume food to educating girls in lower-income countries, these are all solutions which, if deployed collectively on a global scale over the next thirty years, could not just slow the earth's warming, but reach drawdown: the point when greenhouse gasses in the atmosphere peak and begin to decline. So what are we waiting for? Human health is facing unprecedented threats from global environmental change. This book describes the challenges and opportunities to safeguard health.

Science and Technology Education and Future Human Needs is a collection of papers that tackle concerns in the education of future scientists, particularly concerns in identifying techniques and resource material. The title first covers the impact of science on society, and then proceeds to tackling the relevance of science. Next, the selection talks about the revision of science curricula. Chapter 4 deals with science education and the needs of developing countries, while Chapter 5 talks about problems in implementation. The sixth chapter covers the balance between technology and environment in development, and the seventh chapter tackles the nutritional concerns in national development. In the last chapter, the text talks about addressing human needs first before developing science and technology. The book will be of great interest to individuals concerned with the progress of science and technology.

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This book provides a fascinating insight into the on-going process of self-reflection in the Science|Environment|Health (S|E|H) community. The basic vision of a new S|E|H pedagogy is to establish a transdisciplinary dialogue between the three educational fields of science education, environmental education, and health education. This approach finds growing interest among science educators. Since 2014, the ESERA special interest group S|E|H has united both experienced and junior researchers all over Europe in a burgeoning research community. This book presents a selection of results of these vibrant activities. Systems theory has turned out to be a stimulating theoretical framework for S|E|H. The limits of predictability in complex living systems result in structural uncertainty for decision-making, and they ask for emphasising and rethinking the role of pedagogical concepts like informed citizenship and scientific literacy. They challenge crude scientific determinism in environmental and health education, which all too often ends up with students' eco- and health depression. Instead, S|E|H conceives coping with uncertainty in terms of an interplay between cognitive and affective factors. The horizon of the future remains always open. Hope must never die in a new S|E|H pedagogy. Chapter 3 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.