



use energy efficiently while looking to develop alternative renewable sources. The experience of Japan is particularly relevant due to that country's great dependence on foreign fuel supplies, which has led it to be at the forefront of developing new energy conservation and antipollution technologies.

This book uses ecosystem services-based approaches to address major global and regional water challenges, for researchers, students, and policy makers. Geologically speaking, southern Africa is without equal, a treasure house of valuable minerals with a geological history dating back some 3 600 million years. In addition, the evolution of plants and animals, especially mammals and dinosaurs, is well preserved in the region, which also probably has the best record of the origin of modern man. This book provides a fascinating insight into that remarkable history: how southern Africa, and to some extent the world, came to be the way it is - how its mineral deposits formed, its life evolved and its landscape was shaped. Along the way readers will be enthralled by accounts of the Big Bang that marked the beginning of time and matter, by drifting and colliding continents, folding and fracturing of rocks, meteors colliding with the Earth, the time when the Earth froze over, volcanic eruptions and the start of life. Anyone interested in the landscape and ecosystems in which we live will be intrigued to discover how our natural landmarks were formed, from the deserts of Namibia to the mountains of the Western Cape or Mpumalanga. Why is South Africa so rich in minerals? How did glacial deposits come to be found in the Karoo? Why did dinosaurs become extinct? How did mammals develop from reptiles? How closely related are we to the apes? The answers to many such questions are found in this lavishly illustrated volume. The authors also suggest how we can learn from the past in order to anticipate the future - for instance, to be able to predict earthquakes, deal with volcanic eruptions and meet the challenges of global climate change.

The Living Landscape is a manifesto, resource, and textbook for architects, landscape architects, environmental planners, students, and others involved in creating human communities. Since its first edition, published in 1990, it has taught its readers how to develop new built environments while conserving natural resources. No other book presents such a comprehensive approach to planning that is rooted in ecology and design. And no other book offers a similar step-by-step method for planning with an emphasis on sustainable development. This second edition of The Living Landscape offers Frederick Steiner's design-oriented ecological methods to a new generation of students and professionals. The Living Landscape offers • a systematic, highly practical approach to landscape planning that maximizes ecological objectives, community service, and citizen participation • more than 20 challenging case studies that demonstrate how problems were met and overcome, from rural America to large cities • scores of checklists and step-by-step guides • hands-on help with practical zoning, land use, and regulatory issues • coverage of major advances in GIS technology and global sustainability standards • more than 150 illustrations. As Steiner emphasizes throughout this book, all of us have a responsibility to the Earth and to our fellow residents on this planet to plan with vision. We are merely visiting this planet, he notes;



The book has also been of particular support in designing my level 1 and 2 tutorials which cover similar ground to several of the chapters." - Joseph Mallalieu, School of Geography, Leeds University "Montello and Sutton is one of the best texts I've used in seminars on research methodology. The text offers a clear balance of quantitative vs. qualitative and physical vs. human which I've found particularly valuable. The chapters on research ethics, scientific communication, information technologies and data visualization are excellent." - Kenneth E. Foote, Department of Geography, University of Colorado at Boulder This is a broad and integrative introduction to the conduct and interpretation of scientific research, covering both geography and environmental studies. Written for undergraduate and postgraduate students, it: Explains both the conceptual and the technical aspects of research, as well as all phases of the research process Combines approaches in physical geography and environmental science, human geography and human-environment relations, and geographic and environmental information techniques (such as GIS, cartography, and remote sensing) Combines natural and social scientific approaches common to subjects in geography and environmental studies Includes case studies of actual research projects to demonstrate the breadth of approaches taken It will be core reading for students studying scientific research methods in geography, environmental studies and related disciplines such as planning and earth science.

Education plays a vital role in the positive development of communities at both a local and global level. By becoming more informed, citizens can make better contributions to society. Open and Distance Learning Initiatives for Sustainable Development is a critical reference source for emerging academic perspectives on the role of higher education programs in contemporary society. Including a range of pertinent topics such as mobile learning, environmental education, and community building, this book is ideally designed for educators, researchers, students, and professionals interested in the intersection between sustainable development and education.

Over 7 billion people demand water from resources that the changing climate is making more and more difficult to harness. Water scarcity and shortage are increasingly common and conditions are becoming more extreme. Inadequate and inappropriate management of water is already taking its toll on the environment and on the quality of life of millions of people. Modern water professionals have a duty to develop sound water science and robust evidence to lobby and influence national and regional development policy and investment priorities. We need to be bold and brave to challenge the status quo, argue the case for change, and create a New Water Architecture. Water Resources: A New Water Architecture takes a unique approach to the challenges of water management. The stress caused by our desire to live, eat, and consume is examined in the context of Governance, the role of policy, and the commercial world. The authors share their nine-step vision for a New Water Architecture.

Written by three industry practitioners, this book provides students, young professionals, policymakers, and those interested in the sustainability of our natural resources with a pragmatic and compelling perspective on how to manage the ultimate resource of our time.

Understanding weather and climate.

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Environmental Chemistry, Eighth Edition builds on the same organizational structure validated in previous editions to systematically develop the principles, tools, and techniques of environmental chemistry to provide students and professionals with a clear understanding of the science and its applications. Revised and updated since the publication of the best-selling Seventh Edition, this text continues to emphasize the major concepts essential to the practice of environmental science, technology, and chemistry while introducing the newest innovations to the field. The author provides clear explanations to important concepts such as the anthrosphere, industrial ecosystems, geochemistry, aquatic chemistry, and atmospheric chemistry, including the study of ozone-depleting chlorofluorocarbons. The subject of industrial chemistry and energy resources is supported by pertinent topics in recycling and hazardous waste. Several chapters review environmental biochemistry and toxicology, and the final chapters describe analytical methods for measuring chemical and biological waste. New features in this edition include: enhanced coverage of chemical fate and transport; industrial ecology, particularly how it is integrated with green chemistry; conservation principles and recent accomplishments in sustainable chemical science and technology; a new chapter addressing terrorism and threats to the environment; and the use of real world examples. Climate Change and Growth in Asia is a comprehensive analysis of the major issues of climate change and global warming and their possible impacts on the growth of major Asian economies. The book addresses the climate change crisis in Asia within the context of three major challenges of growth: population, poverty and greenhouse gas emissions.

This publication is a practical guidebook on environmental risk assessment, especially for watershed-scale management. It highlights case studies of watershed environmental risk in Malaysia, including the potential health risks as well as screening methods and management in practice. In order to apply environmental risk assessment methods for the management of toxic chemicals, it is necessary to consider the geological and climate features of each country as well as their cultural characteristics. Focusing on Malaysia as a representative country, the book also discusses studies in other Asian countries. The insights provided can be applied to advanced and developing countries alike. A suitable textbook for graduate students, it is also a valuable reference source for researchers, practitioners and policymakers.

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