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John Wiley & Sons
Global Change and the Earth System describes what is known about the Earth system and the impact of changes caused by humans. It considers the consequences of these changes with respect to the stability of the Earth system and the well-being of humankind; as well as exploring future paths towards Earth-system science in support of global sustainability. The results presented here are based on 10 years of research on global change by many of the world's most eminent scholars. This valuable volume achieves a new level of integration and interdisciplinarity in treating global change.

Chemical Fundamentals of Geology and Environmental Geoscience Newnes

An introduction to the scientific consensus on the human role in global warming.

Evolutionary Perspectives Macmillan

This classic by the distinguished Harvard entomologist tells how life on earth evolved and became diverse, and now, how diversity and life are endangered by us, truly. While Wilson contributed a great deal to environmental ethics by calling for the preservation of whole ecosystems rather than individual species, his environmentalism appears too anthropocentric: "We should judge every scrap of biodiversity as priceless while we learn to use it and come to understand what it means to humanity." And: "Signals abound that the loss of life's diversity endangers not just the body but the spirit." This reprint of the 1992 Belknap Press publication contains a new foreword. Annotation copyrighted by Book News, Inc., Portland, OR

Sustainability Principles and Practice Routledge

The ultimate introduction to seismology, written by distinguished scholar and Professor Bruce Bolt, of the University of California, Berkeley, this newly updated edition will provide the best foundation in the field for your introductory students.

Hydrology Houghton Mifflin Harcourt

Resistivity -- Carrier and doping density -- Contact resistance and Schottky barriers -- Series resistance, channel length and width, and threshold voltage -- Defects -- Oxide and interface trapped charges, oxide thickness -- Carrier lifetimes -- Mobility -- Charge-based and probe characterization -- Optical characterization -- Chemical and physical characterization -- Reliability and failure analysis.

Past and Future Springer Science & Business Media

The Rough Guide to Climate Change gives the complete picture of the single biggest issue facing the planet. Cutting a swathe through scientific research and political debate, this completely updated 3rd edition lays out the facts and assesses the options-global and personal-for dealing with the threat of a warming world. The guide looks at the evolution of our atmosphere over the last 4.5 billion years and what computer simulations of climate change reveal about our past, present and future. This updated edition includes scientific findings that have emerged since the 2007 report from the Intergovernmental Panel on Climate Change (IPCC), as well as background on recent controversies and an updated politics section that reflects post-Copenhagen developments. Discover how rising temperatures and sea levels, plus changes to extreme weather patterns, are already affecting life around the world. The Rough Guide to Climate Change unravels how governments, scientists and engineers plan to tackle the problem and includes information on what you can do to help.

An Introductory Survey Wiley Global Education

Earth as an Evolving Planetary System, Second Edition, examines the various subsystems that play a role in the evolution of the Earth. These subsystems include such components as the crust, mantle, core, atmosphere, oceans, and life. The book contains 10 chapters that discuss the structure of the Earth and plate tectonics; the origin and evolution of the crust; the processes that leave tectonic imprints in rocks and modern processes responsible for these imprints; and the structure of the mantle and the core. The book also covers the Earth's atmosphere, hydrosphere, and biosphere; crustal and mantle evolution; the supercontinent cycle; great events in Earth history; and the Earth in comparison to other planets. This book is meant for advanced undergraduate and graduate students in Earth Sciences, with a basic knowledge of geology, biology, chemistry, and physics. It also may serve as a reference tool for specialists in the geologic sciences who want to keep abreast of scientific advances in this field. Slides of all figures in the book can be downloaded on the companion site: <http://www.elsevierdirect.com/companion.jsp?ISBN=9780123852274> Kent Condie's corresponding interactive CD, Plate Tectonics and How the Earth Works, can be purchased from Tasa Graphic Arts here: <http://www.tasagraphicarts.com/progptearth.html> Two new chapters on the Supercontinent Cycle and on Great Events in Earth history New and updated sections on Earth's thermal history, planetary volcanism, planetary crusts, the onset of plate tectonics, changing composition of the oceans and atmosphere, and paleoclimatic

regimes Also new in this Second Edition: the lower mantle and the role of the post-perovskite transition, the role of water in the mantle, new tomographic data tracking plume tails into the deep mantle, Euxinia in Proterozoic oceans, The Hadean, A crustal age gap at 2.4-2.2 Ga, and continental growth

Great Tales and Poems of Edgar Allan Poe John Wiley & Sons

This unique textbook examines the basic health and environmental issues associated with air pollution including the relevant toxicology and epidemiology. It provides a foundation for the sampling and analysis of air pollutants as well as an understanding of international air quality regulations. Written for upper-level undergraduate and introductory graduate courses in air pollution, the book is also a valuable desk reference for practicing professionals who need to have a broad understanding of the topic. Key features: - Provides the most up-to-date coverage of the basic health and environmental issues associated with air pollution. - Offers a broader examination of air pollution topics, beyond just the meteorological and engineering aspects of air pollution. - Includes the following Instructor Resources: Instructor's Manual, PowerPoint Presentations, and a TestBank. The Phalens have put together a timely book on a critically important topic that affects all of us -- air pollution - and they do so in a new and highly relevant way: they consider the broad societal health impacts from a fundamental science viewpoint. The epidemiology, toxicology, and risks of air pollutants are included, and ethical issues of concern are highlighted. This book is a must-read for students who wish to become professionals in the air quality field and for students of environmental science whose work includes air pollution issues. The book is a significant contribution to the discipline." - Cliff I. Davidson, Director, Center for Sustainable Engineering; Thomas C. and Colleen L. Wilmot Professor of Engineering, Syracuse Center of Excellence in Environmental and Energy Systems and Department of Civil and Environmental Engineering, Syracuse University "Truly, human well-being and public health in the 21st century may hinge on our ability to anticipate, recognize, evaluate, control, and confirm responsible management of air pollution. This timely, informative, and insightful text provides a solid introduction for students and a technically sound handbook for professionals seeking literacy and critical thinking, real-life examples, understanding (not just rote applications), opportunities for continuous improvement, and modern tools for assessing and managing current and evolving air pollution challenges." - Mark D. Hoover, PhD, CHP, CIH Aerosol and health science researcher, author, and editor

Thermodynamic Foundations of the Earth System Springer Nature

A new selection for the NEA's Big Read program A compact selection of Poe's greatest stories and poems, chosen by the National Endowment for the Arts for their Big Read program. This selection of eleven stories and seven poems contains such famously chilling masterpieces of the storyteller's art as "The Tell-tale Heart," "The Fall of the House of Usher," "The Cask of Amontillado," and "The Pit and the Pendulum," and such unforgettable poems as "The Raven," "The Bells," and "Annabel Lee." Poe is widely credited with pioneering the detective story, represented here by "The Purloined Letter," "The Mystery of Marie Roget," and "The Murders in the Rue Morgue." Also included is his essay "The Philosophy of Composition," in which he lays out his theory of how good writers write, describing how he constructed "The Raven" as an example.

Semiconductor Material and Device Characterization Jones & Bartlett Publishers

This book provides insights on new geological, tectonic, and climatic developments in India through a time progression from the Archean to the Anthropocene that are captured via authoritative entries from experts in earth sciences. This volume aims to bring graduate students and researchers up to date on the geodynamic evolution of the Indian Plate; concepts that have so far resulted in a rather uneven treatment of the subject at different institutions. The book is divided into 4 sections and includes perspectives such as the formation and evolution of the Indian crust in comparison to its neighbors such as Antarctica, Africa and Australia; the evolution of Precambrian cratons and sedimentary basins of India; and a summary account of early life reported in the Indian stratigraphic record. Readers will also discover the key recent research into the neotectonics, tectonic geomorphology, and paleoseismology of the Himalayan Front. Researchers and students in geology, earth sciences, sedimentology, paleobiology and geography will find this book appealing.

A Guide for College and Beyond Bib. Orton IICA / CATIE

Climate adaptation is a timely yet complex topic that does not fit squarely into any one disciplinary realm. Geospatial Applications for Climate Adaptation Planning presents an overview of the range of strategies, tools, and techniques that must be used to assess myriad overlapping vulnerabilities and to formulate appropriate climate-relevant solutions at multiple scales and in varying contexts. Organized into four sections, the book includes 15 chapters. Each chapter is grounded in the literature and presents case studies designed by the authors, as well as many examples from a diverse international group of scholars and entities in the public and private sectors. Areas covered include: Climate Change and Climate Adaptation Planning: Context and Concepts Geospatial Technologies: Fundamentals and Terminology GIS and Climate Vulnerability Assessments Technical Approaches to Formulating Mitigation and Adaptation Strategies Geospatial Applications for Climate Adaptation Planning is aimed at advanced students, researchers, and entities in the public and private sectors. It also provides supplementary reading for courses in planning, public administration, policy

studies, and disaster management.

The Geoscience Perspective Springer Science & Business Media

Mathematical modeling of atmospheric composition is a formidable scientific and computational challenge. This comprehensive presentation of the modeling methods used in atmospheric chemistry focuses on both theory and practice, from the fundamental principles behind models, through to their applications in interpreting observations. An encyclopaedic coverage of methods used in atmospheric modeling, including their advantages and disadvantages, makes this a one-stop resource with a large scope. Particular emphasis is given to the mathematical formulation of chemical, radiative, and aerosol processes; advection and turbulent transport; emission and deposition processes; as well as major chapters on model evaluation and inverse modeling. The modeling of atmospheric chemistry is an intrinsically interdisciplinary endeavour, bringing together meteorology, radiative transfer, physical chemistry and biogeochemistry, making the book of value to a broad readership. Introductory chapters and a review of the relevant mathematics make this book instantly accessible to graduate students and researchers in the atmospheric sciences.

Sauces Springer Science & Business Media

Authoritative reviews on the wide-ranging ramifications of climate change, from an international team of eminent researchers.

2006 Centennial Update Routledge

Periodic reports from the Intergovernmental Panel on Climate Change (IPCC) evaluate the risk of climate change brought on by humans. But the sheer volume of scientific data remains inscrutable to the general public, particularly to those who may still question the validity of climate change. In just over 200 pages, this practical text presents and expands upon the essential findings of the IPCC's 5th Assessment Report in a visually stunning and undeniably powerful way to the lay reader. Scientific findings that provide validity to the implications of climate change are presented in clear-cut graphic elements, striking images, and understandable analogies.

The Rough Guide to Climate Change Prentice Hall

Atmospheric Science, Second Edition, is the long-awaited update of the classic atmospheric science text, which helped define the field nearly 30 years ago and has served as the cornerstone for most university curricula. Now students and professionals alike can use this updated classic to understand atmospheric phenomena in the context of the latest discoveries, and prepare themselves for more advanced study and real-life problem solving. This latest edition of Atmospheric Science, has been revamped in terms of content and appearance. It contains new chapters on atmospheric chemistry, the Earth system, the atmospheric boundary layer, and climate, as well as enhanced treatment of atmospheric dynamics, radiative transfer, severe storms, and global warming. The authors illustrate concepts with full-color, state-of-the-art imagery and cover a vast amount of new information in the field. Extensive numerical and qualitative exercises help students apply basic physical principles to atmospheric problems. There are also biographical footnotes summarizing the work of key scientists, along with a student companion website that hosts climate data; answers to quantitative exercises; full solutions to selected exercises; skew-T log p chart; related links, appendices; and more. The instructor website features: instructor's guide; solutions to quantitative exercises; electronic figures from the book; plus supplementary images for use in classroom presentations. Meteorology students at both advanced undergraduate and graduate levels will find this book extremely useful. Full-color satellite imagery and cloud photographs illustrate principles throughout Extensive numerical and qualitative exercises emphasize the application of basic physical principles to problems in the atmospheric sciences Biographical footnotes summarize the lives and work of scientists mentioned in the text, and provide students with a sense of the long history of meteorology Companion website encourages more advanced exploration of text topics: supplementary information, images, and bonus exercises

Mathematical Modeling of Earth's Dynamical Systems Elsevier

MyCompLab is an interactive online solution for Composition courses. This site gives you access to a wealth of resources all geared to meet individual learning needs. MyCompLab combines multimedia, tutorials, simulations, tests, and quizzes to make learning fun! This access code gives you access to all of MyCompLab's grade-boosting resources. Access also includes a complete E-Book of Faigley's Writing: A Guide For College and Beyond, 2nd Edition.

A National Strategy to Meet the Challenges of a Changing Ocean Diamond Pocket Books Pvt Ltd

Managing Ocean Environments in a Changing Climate summarizes the current state of several threats to the global oceans. What distinguishes this book most from previous works is that this book begins with a holistic, global-scale focus for the first several chapters and then provides an example of how this approach can be applied on a regional scale, for the Pacific region. Previous works usually have compiled local studies, which are essentially impossible to properly integrate to the global scale. The editors have engaged leading scientists in a number of areas, such as fisheries and marine ecosystems, ocean chemistry, marine biogeochemical cycling, oceans and climate change, and economics, to examine the threats to the oceans both individually and collectively, provide gross estimates of the economic and societal impacts of these threats, and deliver high-level recommendations. Nominated for a Katerva Award in 2012 in the Economy category State of the science reviews by known marine experts provide a concise, readable presentation written at a level for managers and students Links environmental and economic aspects of ocean threats and provides an economic analysis of action versus inaction Provides recommendations for stakeholders to help stimulate the development of policies that would help move toward sustainable use of marine resources and services

Earth System, The: Pearson New International Edition W. W. Norton & Company

Plants have profoundly moulded the Earth's climate and the evolutionary trajectory of life. Far from being 'silent witnesses to the passage of time', plants are dynamic components of our world, shaping the environment throughout history as much as that environment has shaped them. In *The Emerald Planet*, David Beerling puts plants centre stage, revealing the crucial role they have played in driving global changes in the environment, in recording hidden facets of Earth's history, and in helping us to predict its future. His account draws together evidence from fossil plants, from experiments with their living counterparts, and from computer models of the 'Earth System', to illuminate the history of our planet and its biodiversity. This new approach reveals how plummeting carbon dioxide levels removed a barrier to the evolution of the leaf; how plants played a starring role in pushing oxygen levels upwards, allowing spectacular giant insects to thrive in the Carboniferous; and it strengthens fascinating and contentious fossil evidence for an ancient hole in the ozone layer. Along the way, Beerling introduces a lively cast of pioneering scientists from Victorian times onwards whose discoveries provided the crucial background to these and the other puzzles. This understanding of our planet's past sheds a sobering light on our own climate-changing activities, and offers clues to what our climatic and ecological futures might look like. There could be no more important time to take a close look at plants, and to understand the history of the world through the stories they tell. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

Sustainability and Economic Perspectives MIT Press

For courses in Earth Systems Science offered in departments of Geology, Earth Science, Geography and Environmental Science. The first textbook of its kind that addresses the issues of global change from a true Earth systems perspective, *The Earth System* offers a solid emphasis on lessons from Earth's history that may guide decision-making in the future. It is more rigorous and quantitative than traditional Earth science books, while remaining appropriate for non-science majors.

Global Change and Future Earth National Academies Press

Thermodynamics sets fundamental laws for all physical processes and is central to driving and maintaining planetary dynamics. But how do Earth system processes perform work, where do they derive energy from, and what are the limits? This accessible book describes how the laws of thermodynamics apply to Earth system processes, from solar radiation to motion, geochemical cycling and biotic activity. It presents a novel view of the thermodynamic Earth system explaining how it functions and evolves, how different forms of disequilibrium are being maintained, and how evolutionary trends can be interpreted as thermodynamic trends. It also offers an original perspective on human activity, formulating this in terms of a thermodynamic, Earth system process. This book uses simple conceptual models and basic mathematical treatments to illustrate the application of thermodynamics to Earth system processes, making it ideal for researchers and graduate students across a range of Earth and environmental science disciplines.