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Noted expert and author Edmond A. Mathez synthesizes the work of leading scholars in climatology and related fields, and he concludes with an extensive chapter on energy production, anchoring this volume in economic and technological realities and suggesting ways to reduce

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Edmond A. Mathez is curator emeritus in the Department of Earth and Planetary Sciences at the American Museum of Natural History. A leading expositor of earth systems science, he co-curated the museum's Gottesman Hall of Planet Earth, the 2008 exhibit Climate Change: The Threat to Life and a New Energy Future , and the 2014 exhibit Nature's Fury: The Science of Natural Disasters .

Climate Change | Columbia University Press
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Mathez and Smerdon describe the roles that the atmosphere and ocean

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play in our climate, introduce the concept of radiation balance, and explain climate changes that occurred in the past. They also detail the human activities that influence the climate, such as greenhouse gas and aerosol emissions and deforestation, as well as the effects of natural phenomena.

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By Edmond A Mathez Climate Change The Science Of Global ...

The book is a succinct, non-ideological reference for anyone who wants to understand what we know (and don't) about climate, from the basic workings of the atmosphere, oceans and solid earth through the long-term history of planetary climate, the human influence on it, and modern energy production and its implications.

A New Primer on Climate Change - State of the Planet

Climate Change: The Science of Global Warming and Our Energy Future
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Climate Change is geared toward a variety of students and general

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readers who seek the real science behind global warming. Exquisitely illustrated, the text introduces the basic science underlying both the natural progress of climate change and the effect of human activity on the deteriorating health of our planet. Noted expert and author Edmond A. Mathez synthesizes the work of leading scholars in climatology and related fields, and he concludes with an extensive chapter on energy production, anchoring this volume in economic and technological realities and suggesting ways to reduce greenhouse-gas emissions. Climate Change opens with the climate system fundamentals: the workings of the atmosphere and ocean, their chemical interactions via the carbon cycle, and the scientific framework for understanding climate change. Mathez then brings the climate of the past to bear on our present predicament, highlighting the importance of paleoclimatology in understanding the current climate system. Subsequent chapters explore the changes already occurring around us and their implications for the future. In a special feature, Jason E. Smerdon, associate research scientist at Lamont-Doherty Earth Observatory of Columbia University, provides an innovative appendix for students.

This second edition of Climate Change is an accessible and comprehensive guide to the science behind global warming. Exquisitely

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illustrated, the text is geared toward students at a variety of levels. Edmond A. Mathez and Jason E. Smerdon provide a broad, informative introduction to the science that underlies our understanding of the climate system and the effects of human activity on the warming of our planet. Mathez and Smerdon describe the roles that the atmosphere and ocean play in our climate, introduce the concept of radiation balance, and explain climate changes that occurred in the past. They also detail the human activities that influence the climate, such as greenhouse gas and aerosol emissions and deforestation, as well as the effects of natural phenomena. Climate Change concludes with a look toward the future, discussing climate model projections, exploring the economic and technological realities of energy production, and presenting a view of the global warming challenge through the lens of risk. Each chapter features profiles of scientists who advanced our understanding of the material discussed. This new edition expands on the first edition's presentation of scientific concepts, making it ideal for classroom use for a wide swath of undergraduate and masters students with both science and nonscience backgrounds.

An illustrated introduction to the dynamic workings of the Earth furnishes a guided tour of the planet's more than four-billion-year

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history, revealing how Earth evolved from space dust into a life-sustaining world of oceans, weather, thermal energy, and mobile land masses.

Although now a growing and respectable research field, crisis management—as a formal area of study—is relatively young, having emerged since the 1980s following a succession of such calamities as the Bhopal gas leak, Chernobyl nuclear accident, Space Shuttle Challenger loss, and Exxon Valdez oil spill. Analysis of organizational failures that caused such events helped drive the emerging field of crisis management. Simultaneously, the world has experienced a number of devastating natural disasters: Hurricane Katrina, the Japanese earthquake and tsunami, etc. From such crises, both human-induced and natural, we have learned our modern, tightly interconnected and interdependent society is simply more vulnerable to disruption than in the past. This interconnectedness is made possible in part by crisis management and increases our reliance upon it. As such, crisis management is as beneficial and crucial today as information technology has become over the last few decades. Crisis is varied and unavoidable. While the examples highlighted above were extreme, we see crisis every day within organizations, governments, businesses and the economy. A true crisis differs from a "routine"

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emergency, such as a water pipe bursting in the kitchen. Per one definition, "it is associated with urgent, high-stakes challenges in which the outcomes can vary widely (and are very negative at one end of the spectrum) and will depend on the actions taken by those involved." Successfully engaging, dealing with, and working through a crisis requires an understanding of options and tools for individual and joint decision making. Our Encyclopedia of Crisis Management comprehensively overviews concepts and techniques for effectively assessing, analyzing, managing, and resolving crises, whether they be organizational, business, community, or political. From general theories and concepts exploring the meaning and causes of crisis to practical strategies and techniques relevant to crises of specific types, crisis management is thoroughly explored. Features & Benefits: A collection of 385 signed entries are organized in A-to-Z fashion in 2 volumes available in both print and electronic formats. Entries conclude with Cross-References and Further Readings to guide students to in-depth resources. Selected entries feature boxed case studies, providing students with "lessons learned" in how various crises were successfully or unsuccessfully managed and why. Although organized A-to-Z, a thematic "Reader's Guide" in the front matter groups related entries by broad areas (e.g., Agencies & Organizations, Theories & Techniques, Economic Crises, etc.). Also in the front matter, a

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Chronology provides students with historical perspective on the development of crisis management as a discrete field of study. The work concludes with a comprehensive Index, which—in the electronic version—combines with the Reader's Guide and Cross-References to provide thorough search-and-browse capabilities. A template for an "All-Hazards Preparedness Plan" is provided the backmatter; the electronic version of this allows students to explore customized response plans for crises of various sorts. Appendices also include a Resource Guide to classic books, journals, and internet resources in the field, a Glossary, and a vetted list of crisis management-related degree programs, crisis management conferences, etc.

Presents recent research and discoveries in Earth science in six fields, including geothermal energy, Earth's magnetic field, and earthquake forecasting.

This book provides a holistic consideration of climate change that goes beyond pure science, fleshing out the discussion by considering cultural, historical, and policy-driven aspects of this important issue. * Contributions from more than 100 experts * Excerpts from reports from international organizations such as the Intergovernmental Panel on Climate Change (IPCC) * Transcripts of

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speeches from world leaders on the climate change issue * Sidebars on the "climate-history connection" explore the possible links between climate and key events through history, such as the Classical Maya collapse * Essential, annotated primary sources * Quotes from policy makers, scientists, eyewitnesses to climate change, and social and cultural leaders

Addressing the widespread desire to better understand how climate change issues are addressed in the United States, this book provides an unparalleled analysis of features of the US economic and political system that are essential to understanding its responses to climate change. The introductory chapter presents a firm historical context, with the remainder of the book offering balanced and factual discussions of government, business and public responses to issues of energy policies, congressional activity on climate change, and US government involvement in international conferences. Abundant statistical evidence illustrates key concepts and supports analytic themes such as market failures, free riders, and the benefits and costs of alternative courses of action among industry sectors and geographic areas within the US. Written for audiences both outside and within the US, this accessible book is essential reading for anyone interested in climate change, energy, sustainable development

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or related issues around the world.

"Addressing a wide range of topics related to climate, [Comprehending the climate crisis]: tells where carbon originated and how it found its way on Earth; details how carbon became a part of the fossil fuels that are the backbone of the global economy; describes the composition of the atmosphere before civilization's influence began to alter it; provides basic scientific concepts by way of examples; discusses the mechanics of the combustion of fossil fuels and how dependence on them has led to significant changes in the atmosphere's composition; and addresses the solutions available to consider for individuals, families, societies and governments"--P. [4] of cover.

Chronology of Science contains approximately 2,000 cross-referenced entries, ranging from 50 to 150 words each, plus identifiers that categorize the entries into core areas (biology, chemistry, physics, marine science, space and astronomy, Earth science, and weather and climate). Also included are introductory and closing essays in each section, sidebars expanding upon important concepts in each time period, figure legends, appendixes directing the reader to further

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information on specific topics, a bibliography, and an index. This is a helpful reference tool for students looking for basic information about specific scientific events. The entries inspire the reader to investigate the topic further. After reading sections of the book, the reader will have gained accurate information about scientific history, as well as a sense of how scientific discoveries build upon events of the past, and an understanding of the way scientific theories have changed over time.

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