

Introduction To Modern Climate Change

Charting innovative directions in the environmental humanities, this book examines the cultural history of climate change under three broad headings: history, writing and politics. Climate change compels us to rethink many of our traditional means of historical understanding, and demands new ways of relating human knowledge, action and representations to the dimensions of geological and evolutionary time. To address these challenges, this book positions our present moment of climatic knowledge within much longer histories of climatic experience. Only in light of these histories, it argues, can we properly understand what climate means today across an array of discursive domains, from politics, literature and law to neighbourly conversation. Its chapters identify turning-points and experiments in the construction of climates and of atmospheres of sensation. They examine how contemporary ecological thought has repoliticised the representation of

nature and detail vital aspects of the history and prehistory of our climatic modernity. This ground-breaking text will be of great interest to researchers and postgraduate students in environmental history, environmental governance, history of ideas and science, literature and eco-criticism, political theory, cultural theory, as well as all general readers interested in climate change.

This textbook is tightly focused on the problem of anthropogenic climate change. It is unique among textbooks on climate change in that it combines an introduction of the science with an introduction to the non-science issues such as the economic and policy options. Unlike more purely descriptive textbooks, it contains the quantitative depth that is necessary for an adequate understanding of the science of climate change. The goal of the book is for a student to leave the class ready to engage in the public policy debate on this issue. This is an invaluable textbook for any introductory survey course on the science and

policy of climate change, for both non-science majors and introductory science students.

*Climate change is still, arguably, the most critical and controversial issue facing the world in the twenty-first century. Previously published as *Global Warming: A Very Short Introduction*, the new edition is now *Climate Change: A Very Short Introduction*, reflecting an important change in the terminology of the last decade. In the third edition, Mark Maslin includes crucial updates from the last few years, including the results of the 2013 IPCC Fifth Assessment Report, the effects of ocean acidification, and the impact of changes to global population and health. Exploring all of the key topics in the debate, Maslin makes sense of the complexities climate change involves, from political and social issues to environmental and scientific. Looking at its predicated impacts, he explores all of the controversies, and also explains the various proposed solutions. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains*

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hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

An unprecedented union of scientific analysis and stunning photography illustrating the effects of climate change on the global ecosystem.

Picturing the Science

The Climate Crisis

Evidence-based Climate Science

Climate Change

Introduction to Environment, Biodiversity and Climate Change

Highly acclaimed textbook on the science, economics, and policy of modern climate change, for both science students and non-science majors.

The climate record for the past 100,000 years clearly indicates that the climate system has undergone periodic--and often extreme--shifts, sometimes in as little as a decade or less. The causes of abrupt climate changes have not been clearly

established, but the triggering of events is likely to be the result of multiple natural processes. Abrupt climate changes of the magnitude seen in the past would have far-reaching implications for human society and ecosystems, including major impacts on energy consumption and water supply demands. Could such a change happen again? Are human activities exacerbating the likelihood of abrupt climate change? What are the potential societal consequences of such a change? *Abrupt Climate Change: Inevitable Surprises* looks at the current scientific evidence and theoretical understanding to describe what is currently known about abrupt climate change, including patterns and magnitudes, mechanisms, and probability of occurrence. It identifies critical knowledge gaps concerning the potential for future abrupt changes, including those aspects of change most important to society and economies, and outlines a research strategy to close those gaps. Based on the best and most current research available, this book surveys the history of climate change and makes a series of specific recommendations for the future.

Global Climate Change presents both practical and theoretical aspects of global climate change from across geological periods. It addresses holistic issues related to climate change and its contribution in triggering the temperature increase with a multitude of impacts on natural processes. As a result, it helps to

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identify the gaps between policies that have been put in place and the continuously increasing emissions. The challenges presented include habitability, biodiversity, natural resources, and human health. It is organized into information on the past, present, and future of climate change to lead to a more complete understanding and therefore effective solutions. Placing an emphasis on recent climate change research, Global Climate Change helps to bring researchers and graduate students in climate science, environmental science, and sustainability up to date on the science of climate change so far and presents a baseline for how to move into the future effectively. Addresses the variety of challenges associated with climate change, along with possible solutions Includes suggestions for future research on climate change Covers climate change holistically, including global and regional scales, ecosystems, agriculture, energy, and sustainability Presents both practical and theoretical research, including coverage of climate change over various geological periods

Introduction to Modern Climate Change Cambridge University Press

A Guide to the Debate

The Science of Global Warming and Our Energy Future

Climate Change Science: A Modern Synthesis

Climate Change Science

The Physics of Climate Change

Describes the scientific evidence for global warming and its likely consequences, and considers the political implications and what governments, businesses, and individuals can do about the phenomenon and the issues it evokes

Energy and Climate Change: An Introduction to Geological Controls, Interventions and Mitigations examines the Earth system science context of the formation and use of fossil fuel resources, and the implications for climate change. It also examines the historical and economic trends of fossil fuel usage and the ways in which these have begun to affect the natural system (i.e., the start of the Anthropocene). Finally, the book examines the effects we might expect in the future looking at evidence from the "deep time" past, and looks at ways to mitigate climate change by using negative emissions technology (e.g. bioenergy and carbon capture and storage, BECCS), but also by adapting to perhaps a higher than "two degree world," particularly in the most vulnerable, developing countries. Energy and Climate Change is an essential resource for geoscientists, climate scientists, environmental scientists, and students; as well as policy makers, energy professionals, energy statisticians, energy historians and economists. Provides an

overarching narrative linking Earth system science with an integrated approach to energy and climate change Includes a unique breadth of coverage from modern to "deep time" climate change; from resource geology to economics; from climate change mitigation to adaptation; and from the industrial revolution to the Anthropocene Readable, accessible, and well-illustrated, giving the reader a clear overview of the topic

Climate Change is geared toward a variety of students and general 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.

Environment includes air, water, land and the inter relationship between air water, land and human beings and other living creatures, plants micro-organisms and property. Environment effects the wellbeing of man, animal and plants world over. Man is more advanced in intellect and hence it is the duty of man to protect the environment from undesired pollutions. The book discusses various aspects of Global warming, climate change, health hazards, dwindling of forest, water resources and natural resources and stress on biological diversity. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

How Numerical Models Revealed the Secrets of Climate Change

Global Warming

Observed impacts on Planet Earth

A First Book about How We Can Help Save Our Planet

Inevitable Surprises

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This introductory textbook on the problem of modern climate change - science, economics, and policy - enables informed debate of public policy.

Syukuro Manabe is perhaps the leading pioneer of modern climate modeling. *Beyond Global Warming* is his compelling firsthand account of how the scientific community came to understand the human causes of climate change, and how numerical models using the world's most powerful computers have been instrumental to these vital discoveries. Joined here by atmospheric scientist Anthony Broccoli, Manabe shows how climate models have been used as virtual laboratories for examining the complex planetary interactions of atmosphere, ocean, and land. Manabe and Broccoli use these studies as the basis for a broader discussion of human-induced global warming--and what the future may hold for a warming planet. They tell the stories of early trailblazers such as Svante Arrhenius, the legendary Swedish scientist who created the first climate model of Earth more than a century ago, and provide rare insights into Manabe's own groundbreaking work over the past five decades. Expertly walking readers through key breakthroughs, they explain why increasing atmospheric carbon

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dioxide has caused temperatures to rise in the troposphere yet fall in the stratosphere, why the warming of the planet's surface differs by hemisphere, why drought is becoming more frequent in arid regions despite the global increase in precipitation, and much more.

The warming of the Earth has been the subject of intense debate and concern for many scientists, policy-makers, and citizens for at least the past decade. *Climate Change Science: An Analysis of Some Key Questions*, a new report by a committee of the National Research Council, characterizes the global warming trend over the last 100 years, and examines what may be in store for the 21st century and the extent to which warming may be attributable to human activity.

An introduction to the principles of climate change science with an emphasis on the empirical evidence for climate change and a warming world. Additional readings are given at the end of each chapter. A list of "Things to Know" opens each chapter. Chapters are arranged so that the student is first introduced to the scientific method(s), examples of the use of the scientific method from other sciences drawn from the history of science

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with an emphasis on climate science. Climate science is treated in each chapter based on the premise of global warming. Chapter treatments on the atmosphere, biosphere, geosphere, hydrosphere, and anthroposphere and their inter-relationships are given. A Brief History of Climate Change, Climate Science, Climate Hysteria, Climate Denial, Climate Debate, and Reasons for Hope Global Climate Change Impacts in the United States A Short Introduction to Climate Change Beyond Global Warming

Climate change is occurring, is caused largely by human activities, and poses significant risks for--and in many cases is already affecting--a broad range of human and natural systems. The compelling case for these conclusions is provided in Advancing the Science of Climate Change, part of a congressionally requested suite of studies known as America's Climate Choices. While noting that there is always more to learn and that the scientific process is never closed, the book shows that hypotheses about climate change are supported by multiple lines of evidence and have stood firm in the face of serious debate and careful evaluation of alternative

explanations. As decision makers respond to these risks, the nation's scientific enterprise can contribute through research that improves understanding of the causes and consequences of climate change and also is useful to decision makers at the local, regional, national, and international levels. The book identifies decisions being made in 12 sectors, ranging from agriculture to transportation, to identify decisions being made in response to climate change. Advancing the Science of Climate Change calls for a single federal entity or program to coordinate a national, multidisciplinary research effort aimed at improving both understanding and responses to climate change. Seven cross-cutting research themes are identified to support this scientific enterprise. In addition, leaders of federal climate research should redouble efforts to deploy a comprehensive climate observing system, improve climate models and other analytical tools, invest in human capital, and improve linkages between research and decisions by forming partnerships with action-oriented programs.

This handbook offers the first comprehensive, state-of-the-field guide to past weather and climate and their role in human societies. Bringing together dozens of international specialists from the sciences and

humanities, this volume describes the methods, sources, and major findings of historical climate reconstruction and impact research. Its chapters take the reader through each key source of past climate and weather information and each technique of analysis; through each historical period and region of the world; through the major topics of climate and history and core case studies; and finally through the history of climate ideas and science. Using clear, non-technical language, The Palgrave Handbook of Climate History serves as a textbook for students, a reference guide for specialists and an introduction to climate history for scholars and interested readers.

A capricious beast ever since the days when he had trudged around fossil lake basins in Nevada for his doctoral thesis, Broecker had been interested in sudden climate shifts. Here is his most surprising and important calculation.

“Brilliant and fundamental, this is the necessary book about our prime global emergency. Here you’ll find the facts, the processes, the physics of our complex and changing climate, but delivered with eloquence and urgency. Lawrence Krauss writes with a clarity that transcends mere politics. Prose and poetry were never better bedfellows.” —Ian McEwan,

Booker Prize-winning author of Solar and Machines Like Me "The ideal book for understanding the science of global warming..at once elegant, rigorous, and timely." — Elizabeth Kolbert, Pulitzer Prizewinning author of The Sixth Extinction "A brief, brilliant, and charming summary of what physicists know about climate change and how they learned it." —Sheldon Glashow, Nobel Laureate in Physics, Metcalf Distinguished Professor Emeritus, Boston University "The distinguished scientist Lawrence Krauss turns his penetrating gaze on the most pressing existential threat facing our world: climate change. It is brimming with information lucidly analysed. Such hope as there is lies in science, and a physicist of Dr. Krauss's imaginative versatility is unusually qualified to offer it." —Richard Dawkins, author of The Blind Watchmaker and Science in the Soul "Lucid and gripping, this study of the most severe challenge humans have ever faced leads the reader from the basic physics of climate change to recognition of the damage that humans have already caused and on to the prospects that lie ahead if we do not change course soon." —Noam Chomsky, Laureate Professor, University of Arizona, author of Internationalism or Extinction? "Lawrence Krauss tells the story of climate change with erudition, urgency, and passion. It is our great good luck that one of our most brilliant

scientists is also such a gifted writer. This book will change the way we think about the future.” —Jennifer Finney Boylan, author of Good Boy and She’s Not There “Everything on climate change that I’ve seen is either dumbed down and bossy or written for other climate scientists. I’ve been looking for a book that can let me, a layperson, understand the science. This book does just what I was looking for. It is important.” —Penn Jillette, Magician, author of Presto! and God, No! “The renowned physicist Lawrence Krauss makes the science behind one of the most important issues of our time accessible to all.” —Richard C. J. Somerville, Distinguished Professor Emeritus, Scripps Institution of Oceanography, University of California, San Diego “Lawrence Krauss is a fine physicist, a talented writer, and a scientist deeply engaged with public affairs. His book deserves wide readership. The book’s eloquent exposition of the science and the threats should enlighten all readers and motivate them to an urgent concern about our planet’s future.” —Lord Martin Rees, Astronomer Royal, former president of the Royal Society, author of On the Future: Prospects for Humanity

Abrupt Climate Change

An Introductory Guide to Climate Change

Advancing the Science of Climate Change Global Warming and Climate Change Demystified Climate Change and Society

What's natural, what's caused by humans, and why climate change is a disaster for all A Brief History of the Earth's Climate is an accessible myth-busting guide to the natural evolution of the Earth's climate over 4.6 billion years, and how and why human-caused global warming and climate change is different and much more dangerous. Richly illustrated chapters cover the major historical climate change processes including evolution of the sun, plate motions and continental collisions, volcanic eruptions, changes to major ocean currents, Earth's orbital variations, sunspot variations, and short-term ocean current cycles. As well as recent human-induced climate change and an overview of the implications of the COVID pandemic for climate change. Content includes: Understanding natural geological processes that shaped the climate How human impacts are now rapidly changing the climate Tipping points and the unfolding climate crisis What we can do to limit the damage to the planet and ecosystems Countering climate myths peddled by climate change science deniers. A Brief History of the Earth's Climate is essential reading for everyone who is looking to understand what drives climate change, counter skeptics and deniers, and take action on the climate emergency.

The climate of the Earth is always changing. As the debate over the implications of

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changes in the Earth's climate has grown, the term climate change has come to refer primarily to changes we've seen over recent years and those which are predicted to be coming, mainly as a result of human behavior. This book serves as a broad, accessible guide to the science behind this often political and heated debate by providing scientific detail and evidence in language that is clear to both the non-specialist and the serious student. * provides all the scientific evidence for and possible causes of climate change in one book * written by expert scientists working in the field * logical, non-emotional conclusions * a source book for the latest findings on climate change

The thoroughly updated second edition of an invaluable textbook for any introductory survey course on the science and policy of climate change.

"This book is aimed at non-science-major undergraduates and is tightly focused on the problem of anthropogenic climate change. The first half of the book focuses on the science of modern climate change, including evidence that the Earth is warming and a basic description of climate physics. It also covers concepts like radiative forcing, feedbacks, and the carbon cycle. The book shows many algebra-based calculations to illustrate the science. The second half of the book goes beyond science to address non-science issues such as the economics and our policy options to address climate change. The goal of the book is for a student to leave the class ready to engage in the public policy debate on this issue"--Provided by publisher.

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Climate Change: A Very Short Introduction

The Changing Flow of Energy Through the Climate System

Everyone's Guide to the Science of Climate Change

The Palgrave Handbook of Climate History

An Introduction to Geological Controls, Interventions and Mitigations

A non-heated discussion on global warming and climate change Interested in getting to the core of the reasons for the Earth's changing climate? Want an accurate reading on the science behind global warming? Here's your gauge! This easy-to-follow guide offers a temperate view of this hot topic. Global Warming & Climate Change Demystified starts by looking at scientific data gathered from weather instruments, satellite telemetry, ice cores, and coral sections that reveal how the Earth's temperature is changing. The book goes on to examine the causes of climate change, including both natural processes and human-generated greenhouse gases. Finally, the consequences of global warming are discussed and a wide variety of viable solutions that can be implemented by individuals as well as society as a whole are presented. Complete with end-of-chapter quizzes and a final review to test your knowledge, this book will teach you the fundamentals of global warming and climate change in an unbiased and thorough manner. This fast and easy guide offers:

- A thorough review of scientific data
- Details on the evidence of global warming worldwide
- Information on the origin and impact of greenhouse gases
- Explanations of alternatives to carbon-based energy sources
- Suggestions for local and

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global solutions Simple enough for a beginner, but challenging enough for an advanced student, *Global Warming & Climate Change Demystified* is your shortcut to understanding this important and timely issue.

Provides a comprehensive, balanced and reader-friendly account of the developments in climate science over the past 250 years.

Climate change is one of the most critical issues of the twenty-first century, presenting a major intellectual challenge to both the natural and social sciences. While there has been significant progress in natural science understanding of climate change, social science analyses have not been as fully developed. *Climate Change and Society* breaks new theoretical and empirical ground by presenting climate change as a thoroughly social phenomenon, embedded in behaviors, institutions, and cultural practices. This collection of essays summarizes existing approaches to understanding the social, economic, political, and cultural dimensions of climate change. From the factors that drive carbon emissions to those which influence societal responses to climate change, the volume provides a comprehensive overview of the social dimensions of climate change. An improved understanding of the complex relationship between climate change and society is essential for modifying ecologically harmful human behaviors and institutional practices, creating just and effective environmental policies, and developing a more sustainable future. *Climate Change and Society* provides a useful tool in efforts to integrate social science research, natural science research, and policymaking regarding climate change

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and sustainability. Produced by the American Sociological Association's Task Force on Sociology and Global Climate Change, this book presents a challenging shift from the standard climate change discourse, and offers a valuable resource for students, scholars, and professionals involved in climate change research and policy.

Summarizes the science of climate change and impacts on the United States, for the public and policymakers.

The Discovery of Global Warming

Turning Knowledge Into Action

Drawdown

Sociological Perspectives

Understanding Global Warming

An introduction to the climate-change debate for non-specialists.

Global warming and human-induced climate change are perhaps the most important scientific issues of our time. These issues continue to be debated in the scientific community and in the media without true consensus about the role of greenhouse gas emissions as a contributing factor. Evidence-Based Climate Science: Data opposing CO2 emissions as the primary source of global warming objectively gathers and analyzes scientific data

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concerning patterns of past climate changes, influences of changes in ocean temperatures, the effect of solar variation on global climate, and the effect of CO2 on global climate to clearly and objectively present counter-global-warming evidence not embraced by proponents of CO2. An unbiased, evidence-based analysis of the scientific data concerning climate change and global warming Authored by 8 of the world's leading climate scientists, each with more than 25 years of experience in the field Extensive analysis of the physics of CO2 as a greenhouse gas and its role in global warming Comprehensive citations, references, and bibliography Adaptation strategies are presented as alternative reactions to greenhouse gas emission reductions An introduction to the scientific consensus on the human role in global warming.

A concise and clear overview of the essential scientific information on climate change for students and the general reader.

A Cultural History of Climate Change

Data Opposing CO2 Emissions as the Primary Source of Global Warming

An Analysis of Some Key Questions

The Complete Briefing

Introduction to Modern Climate Change

University Press returns with another short and captivating book - a brief history of climate change, climate science, and climate debate. Climate change. Climate science. Climate hysteria. Climate denial. Climate debate. We know that the Earth goes through regular cycles of cooling and heating. The question is: Are humans responsible for the latest round of climate change? If humans are responsible, then what, if anything, should humans do about it? According to most climate scientists, climate change has many causes, including - most controversially - the incentives, habits, decisions, and behaviors of human individuals, businesses, and nations. Unfortunately, ignorant climate hysteria has created knee-jerk overreactions and equally ignorant climate denialism. Both extremes are grossly disingenuous. Both extremes ignore the facts, stifle debate, and appeal to lazy minds. The global climate wars may be heated and polarizing, but the world deserves thoughtful, informed debate on a subject of this magnitude. This short book peels back the veil and provides a clear-eyed glimpse into the remarkable history of climate science and its implications for our world today - a glimpse that you can read in about an hour.

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The science of climate change is a complex subject that balances the physical record and scientific fact with politics, policy, and ethics - and is of particular importance to the geosciences. This thoughtfully crafted new text and accompanying media encourage non-science majors to practice critical thinking, analysis, and discourse about climate change themes. Taking a cross-disciplinary approach, acclaimed educator and researcher, David Kitchen, examines not only the physical science, but the social, economic, political, energy, and environmental issues surrounding climate change. His goal: to turn knowledge into action, equipping students with the knowledge and critical skills to make informed decisions, separate facts from fiction, and participate in the public debate.

Elegant, novel explanation of climate change, emphasizing physical understanding and concepts, while avoiding complex mathematics, supported by excellent color illustrations.

The Story of Climate Change is a wonderful way to introduce young readers to one of the most important issues facing our world today. Combining history with science, this book charts the changes in our Earth's climate, from the beginnings of the planet and its atmosphere, to the Industrial revolution and the dawn of machinery. Kids will learn all about the causes of climate change, such as factory farming and pollution, and the effects that climate change

has on humans and animals across the world. As well as discovering the causes and effects of global warming, readers will discover practical ways we can work together to solve it, from using renewable energy to swapping meat for vegetables in our diet. With fact-packed text by Catherine Barr and vibrant illustrations by Amy Husband and Mike Love, The Story of Climate Change will give kids the information they need to make a change and do their part to fight the climate emergency!

Dire Predictions

***The Most Comprehensive Plan Ever Proposed to Reverse Global Warming
Global Climate Change***

***A Brief History of the Earth's Climate
Climate Change Book***

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.

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Scientific findings that provide validity to the implications of climate change are presented in clear-cut graphic elements, striking images, and understandable analogies.

- New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world “At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, *Vox* “This is the ideal environmental sciences textbook—only it is too interesting and

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inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

Energy and Climate Change

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The Science and Politics of Global Climate Change

Volume 1 - The Physical Climate

What We Know about Climate Change

The Story of Climate Change