

Introduction To Modern Climate Change

The New Climate War
 The Metamorphosis of the World
 A Short Introduction to Climate Change
 Energy and Climate Change
 Global Physical Climatology
 Climate Change: A Very Short Introduction
 Global Warming and Climate Change Demystified
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 Global Warming
 Beyond Global Warming

Introduction To Modern Climate Change

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GALVAN DESHAWN

The New Climate War Cambridge University Press

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

The Metamorphosis of the World Psychology Press

A perfect introduction to climate change law, this textbook offers students and scholars an overview of the international law governing this fundamental issue. It demonstrates how to interpret the language used in the applicable instruments and conventions, and sets climate change law in its broader international legal context.

A Short Introduction to Climate Change National Academies Press

Explores the latest historical research on the development of the earth's climate, showing how even minor changes in the climate could result in major social, political, and religious upheavals.

Energy and Climate Change Cambridge University Press

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.

Global Physical Climatology Post Hill Press

This volume presents a broad, accessible review of the state of the art in climate change science.

Climate Change: A Very Short Introduction National Academies Press

"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.

Global Warming and Climate Change Demystified Springer Science & Business Media

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 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.

[A Cultural History of Climate](#) McGraw Hill Professional

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

The Climate Crisis Harvard University Press

The link between justice and climate change is becoming increasingly prominent in public debates on climate policy. This clear and concise philosophical introduction to climate justice addresses the hot topic of climate change as a moral challenge. Using engaging everyday examples the authors address the core arguments by providing a comprehensive and balanced overview of this heated debate, enabling students and practitioners to think critically about the subject area and to promote discussion on questions such as: Why do anything in the face of climate change? How much do we owe our descendants – a better world, or nothing at all? How should we distribute the burden of climate action between industrialized and developing countries? Should I adopt a green lifestyle even if no one else makes an effort? Which means of reducing emissions are permissible? Should we put hope in technological solutions? Should we re-design democratic institutions for more effective climate policy? With chapter summaries, illustrative examples and suggestions for further reading, this book is an ideal introduction for students in political philosophy, applied ethics and environmental ethics, as well as for practitioners working on one of the most urgent issues of our time.

Introduction to Modern Climate Change Polity

This book introduces climate change fundamentals and essential concepts that reveal the extent of the damage, the impacts felt around the globe, and the innovation and leadership it will take to bring an end to the status quo. Emphasizing peer-reviewed literature, this text details the impact of climate change on land and sea, the water cycle, human communities, the weather, and humanity's collective future. Coverage of greenhouse gases, oceanic and atmospheric processes, Pleistocene and Holocene paleoclimate, sea levels, and other fundamental topics provide a deep understanding of key mechanisms, while discussion of extreme weather, economic impacts, and resource scarcity reveals how climate change is already impacting people's lives—and will continue to do so at an increasing rate for the foreseeable future.

[Global Warming Science](#) Columbia University Press

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. The second edition has been thoroughly updated to reflect the most recent science from the latest Intergovernmental Panel on Climate Change reports, and many illustrations include new data. The new edition also reflects advances in the political debate over climate change. Unique amongst textbooks on climate change, it combines an introduction to the science with an introduction to economic and policy issues, and is tightly focused on anthropogenic climate change. It contains the necessary quantitative depth for students to properly understand the science of climate change. It supports students in using algebra to understand simple equations and to solve end-of-chapter problems. Supplementary online resources include a complete set of PowerPoint figures for instructors, solutions to exercises, videos of the author's lectures, and additional computer exercises.

[Climate, History and the Modern World](#) Rethinking Schools

The first global study by a historian to fully integrate the earth-system approach of the new climate science with the material history of humanity.

Climate Change and the Course of Global History Cambridge University Press

With the inclusion of new material, preface and illustrations, this 2nd edition of Lamb's acclaimed book covers issues of past and present climates, impacts on human affairs and an understanding of the problems of forecasting.

Climate Change Elsevier

I love it. Earle understands the big climate picture and paints it with exceptional clarity. — JAMES HANSEN, director, Climate Science, Awareness and Solutions, Columbia University Earth Institute
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. AWARDS SILVER | 2022 IPPY Awards - Science

[Introduction to Modern Climate Change](#) Academic Press

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 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

Climate Change University of Chicago Press

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 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.

The Future Earth Elsevier

The first hopeful book about climate change, *The Future Earth* shows readers how to reverse the short- and long-term effects of climate change over the next three decades. The basics of climate science are easy. We know it is entirely human-caused. Which means its solutions will be similarly human-led. In *The Future Earth*, leading climate change advocate and weather-related journalist Eric Holthaus ("the Rebel Nerd of Meteorology"—Rolling Stone) offers a radical vision of our future, specifically how to reverse the short- and long-term effects of climate change over the next three decades. Anchored by world-class reporting, interviews with futurists, climatologists, biologists, economists, and climate change activists, it shows what the world could look like if we implemented radical solutions on the scale of the crises we face. What could happen if we reduced carbon emissions by 50 percent in the next decade? What could living in a city look like in 2030? How could the world operate in 2040, if the proposed Green New Deal created a 100 percent net carbon-free economy in the United States? This is the book for anyone who feels overwhelmed by the current state of our environment. Hopeful and prophetic, *The Future Earth* invites us to imagine how we can reverse the effects of climate change in our own lifetime and encourages us to enter a deeper relationship with the earth as conscientious stewards and to re-affirm our commitment to one another in our shared humanity.

Climate Change Cambridge University Press

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

The Rise of Climate Science John Wiley & Sons

Shortlisted for the FT/McKinsey Business Book of the Year award A renowned climate scientist shows how fossil fuel companies have waged a thirty-year campaign to deflect blame and responsibility and delay action on climate change, and offers a battle plan for how we can save the planet. Recycle. Fly less. Eat less meat. These are some of the ways that we've been told can slow climate change. But the inordinate emphasis on individual behavior is the result of a marketing campaign that has succeeded in placing the responsibility for fixing climate change squarely on the shoulders of individuals. Fossil fuel companies have followed the example of other industries deflecting blame (think "guns don't kill people, people kill people") or greenwashing (think of the beverage industry's "Crying Indian" commercials of the 1970s). Meanwhile, they've blocked efforts to regulate or price carbon emissions, run PR campaigns aimed at discrediting viable alternatives, and have abdicated their responsibility in fixing the problem they've created. The result has been disastrous for our planet. In *The New Climate War*, Mann argues that all is not lost. He draws the battle lines between the people and the polluters-fossil fuel companies, right-wing plutocrats, and petrostates. And he outlines a plan for forcing our governments and corporations to wake up and make real change, including: A common-sense, attainable approach to carbon pricing- and a revision of the well-intentioned but flawed currently proposed version of the Green New Deal; Allowing renewable energy to compete fairly against fossil fuels Debunking the false narratives and arguments that have worked their way into the climate debate and driven a wedge between even those who support climate change solutions Combatting climate doomism and despair-mongering With immensely powerful vested interests aligned in defense of the fossil fuel status quo, the societal tipping point won't happen without the active participation of citizens everywhere aiding in the collective push forward. This book will reach, inform, and enable citizens everywhere to join this battle for our planet.

Introduction to Modern Climate Change Taylor & Francis

In 2001 a panel representing virtually all the world's governments and climate scientists announced that they had reached a consensus: the world was warming at a rate without precedent during at least the last ten millennia, and that warming was caused by the buildup of greenhouse gases from human activity. The consensus itself was at least a century in the making. The story of how scientists reached their conclusion--by way of unexpected twists and turns and in the face of formidable intellectual, financial, and political obstacles--is told for the first time in *The Discovery of Global Warming*. Spencer R. Weart lucidly explains the emerging science, introduces us to the major players, and shows us how the Earth's irreducibly complicated climate system was mirrored by the global scientific community that studied it. Unlike familiar tales of Science Triumphant, this book portrays scientists working on bits and pieces of a topic so complex that they could never achieve full certainty--yet so important to human survival that provisional answers were essential. Weart unsparingly depicts the conflicts and mistakes, and how they sometimes led to fruitful results. His book reminds us that scientists do not work in isolation, but interact in crucial ways with the political system and with the general public. The book not only reveals the history of global warming, but also analyzes the nature of modern scientific work as it confronts the most difficult questions about the Earth's future. Table of Contents: Preface 1. How Could Climate

Change? 2. Discovering a Possibility 3. A Delicate System 4. A Visible Threat 5. Public Warnings 6. The Erratic Beast 7. Breaking into Politics 8. The Discovery Confirmed Reflections Milestones Notes Further Reading Index Reviews of this book: A soberly written synthesis of science and politics. -- Gilbert Taylor, Booklist Reviews of this book: Charting the evolution and confirmation of the theory [of global warming], Spencer R. Weart, director of the Center for the History of Physics of the American Institute of Physics, dissects the interwoven threads of research and reveals the political and societal subtexts that colored scientists' views and the public reception their work received. -- Andrew C. Revkin, New York Times Book Review Reviews of this book: It took a century for scientists to agree that gases produced by human activity were causing the world to warm up. Now, in an engaging book that reads like a detective story, physicist Weart reports the history of global warming theory, including the internal conflicts plaguing the research community and the role government has had in promoting climate studies. --Publishers Weekly Reviews of this book: It is almost two centuries since the French mathematician Jean Baptiste Fourier discovered that the Earth was far warmer than it had any right to be, given its distance from the Sun...Spencer Weart's book about how Fourier's initially inconsequential discovery finally triggered urgent debate about the future habitability of the Earth is lucid, painstaking and commendably brief, packing everything into 200 pages. --Fred Pearce, The Independent Reviews of this book: [The Discovery of Global Warming] is a well-written, well-researched and well-balanced account of the issues involved...This is not a sermon for the faithful, or verses from Revelation for the evangelicals, but a serious

summary for those who like reasoned argument. Read it--and be converted. --John Emsley, Times Literary Supplement Reviews of this book: This is a terrific book...Perhaps the finest compliment I could give this book is to report that I intend to use it instead of my own book...for my climate class. The Discovery of Global Warming is more up-to-date, better balanced historically, beautifully written and, not least important, short and to the point. I think the [Intergovernmental Panel on Climate Change] needs to enlist a few good historians like Weart for its next assessment. -- Stephen H. Schneider, Nature Reviews of this book: This short, well-written book by a science historian at the American Institute of Physics adds a serious voice to the overheated debate about global warming and would serve as a great starting point for anyone who wants to better understand the issue. --Maureen Christie, American Scientist Reviews of this book: I was very pleasantly surprised to find that Spencer Weart's account provides much valuable and interesting material about how the discipline developed--not just from the perspective of climate science but also within the context of the field's relation to other scientific disciplines, the media, political trends, and even 20th-century history (particularly the Cold War). In addition, Weart has done a valuable service by recording for posterity background information on some of the key discoveries and historical figures who contributed to our present understanding of the global warming problem. --Thomas J. Crowley, Science Reviews of this book: Weart has done us all a service by bringing the discovery of global warming into a short, compendious and persuasive book for a general readership. He is especially strong on the early days and the scientific background. -- Crispin Tickell, Times Higher Education Supplement A Capricious Beast Ever since the days when

he had trudged around fossil lake basins in Nevada for his doctoral thesis, Wally Broecker had been interested in sudden climate shifts. The reported sudden jumps of CO2 in Greenland ice cores stimulated him to put this interest into conjunction with his oceanographic interests. The result was a surprising and important calculation. The key was what Broecker later described as a "great conveyor belt" of seawater carrying heat northward. . . . The energy carried to the neighborhood of Iceland was "staggering," Broecker realized, nearly a third as much as the Sun sheds upon the entire North Atlantic. If something were to shut down the conveyor, climate would change across much of the Northern Hemisphere! There was reason to believe a shutdown could happen swiftly. In many regions the consequences for climate would be spectacular. Broecker was foremost in taking this disagreeable news to the public. In 1987 he wrote that we had been treating the greenhouse effect as a 'cocktail hour curiosity,' but now 'we must view it as a threat to human beings and wildlife.' The climate system was a capricious beast, he said, and we were poking it with a sharp stick. I found the book enjoyable, thoughtful, and an excellent introduction to the history of what may be one of the most important subjects of the next one hundred years. --Clark Miller, University of Wisconsin The Discovery of Global Warming raises important scientific issues and topics and includes essential detail. Readers should be able to follow the discussion and emerge at the end with a good understanding of how scientists have developed a consensus on global warming, what it is, and what issues now face human society. --Thomas R. Dunlap, Texas A&M University

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