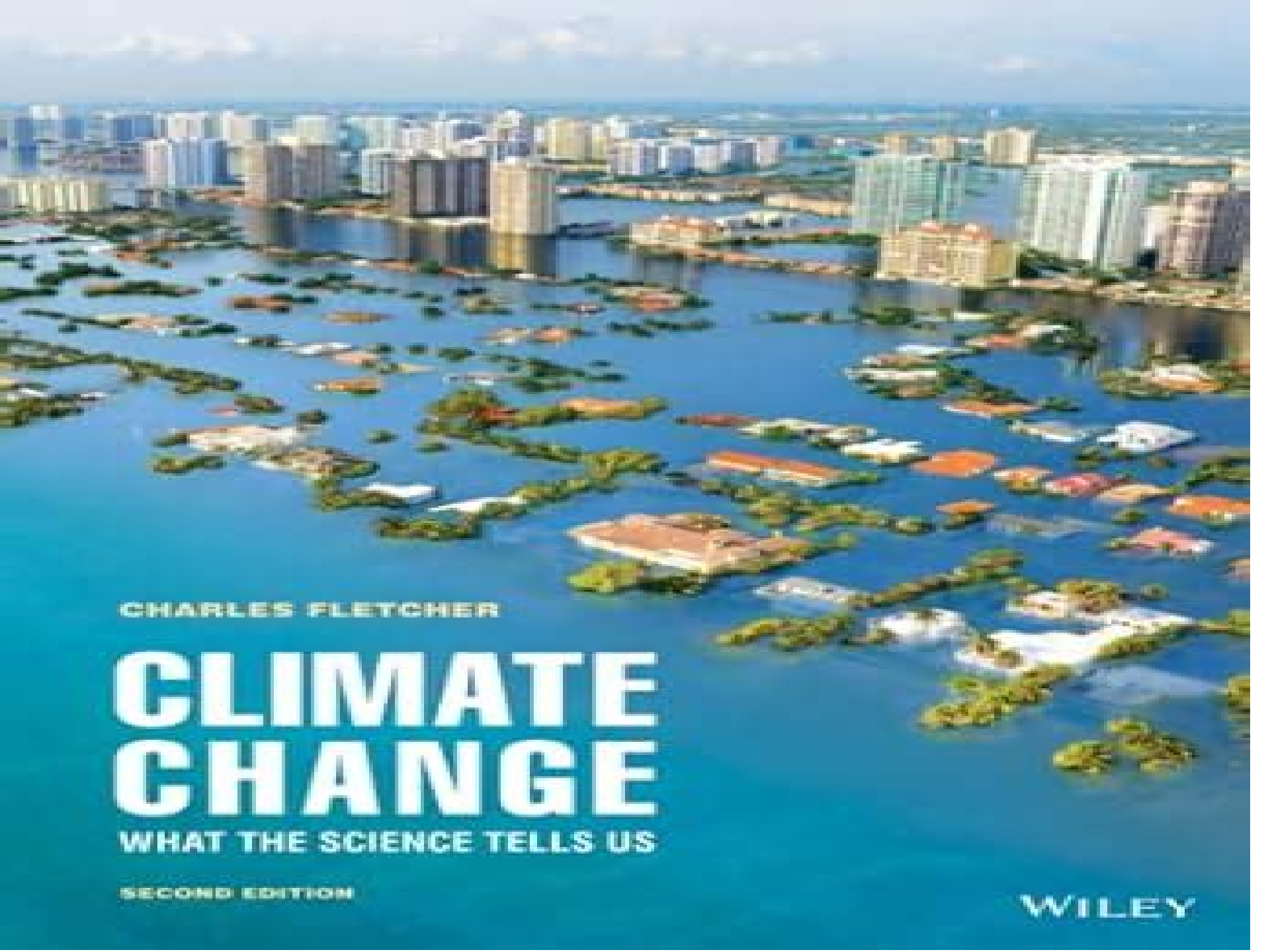




CHARLES FLETCHER

CLIMATE CHANGE

WHAT THE SCIENCE TELLS US

SECOND EDITION

WILEY

Climate Change What The Science Tells Us

Charles Fletcher



Climate Change What The Science Tells Us:

Climate Change Chip Fletcher, 2018-10-30 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

Climate Change Charles Fletcher, 2013-01-29 Fletcher s 1st edition of *Climate Change What the Science Tells Us* places strong emphasis on the peer reviewed literature in reporting the impacts of climate change on the ocean terrestrialecosystems the water cycle human communities dangerous weather patterns and potential future Earth systems The book offers detailed discussion of greenhouse gases oceanic and atmospheric processes Pleistocene and Holocene paleoclimate the human fingerprints of climate change modeling climate sea level rise climate impacts on economic sectors and dangerous weather patterns associated with climate change Fletcher offers the first real textbook to present the sciences surrounding climate change at the right level for an undergraduate student His polished writing style makes this an entertaining read while the pedagogical support and organization helps students better identify and understand key concepts ideas and terms Each chapter is organized with learning objectives student exercises videos scientific citations to promote further learning and creative thinking problems to underpin classroom discussion **Climate Change** Charles H.

Fletcher, 2019 Climate Change Chip Fletcher, 2018-11-20 *Climate Science and EPA's Greenhouse Gas Regulations* United States. Congress. House. Committee on Energy and Commerce, 2011 **Climate Change** Kristen St. John, Lawrence Krissek, 2025-08-22 This open access book on climate change assesses past climatic change from a geoscience perspective and directly and effectively addresses common misconceptions on climate and climate change A geoscience perspective on the multiple causes rates and consequences of climate change is essential context to assess modern climate change and our role in it as well as forecasting future climate conditions Yet most textbooks on climate change focus only on the very recent past e g last century are not sufficiently engaging for non scientists or explore paleoclimate science at a level too challenging for introductory students In addition a wide range of misconceptions and confusion exists in the general public about climate change Correcting misconceptions is an essential aspect of education but educational research has shown that it is challenging to achieve This textbook includes introductions to each thematic Part that directly identify relevant misconceptions and refute them with clear concise messages i e learning goals that are grounded in science and expanded on in the supporting chapters Such refutation style approaches have been shown to be effective at addressing misconceptions

The book offers a clear trajectory of fundamental climate science concepts which are most beneficially combined to provide a valuable geoscience perspective on the causes rates and consequences of climate change It frames the collection of climate science chapters with impactful relevant social science context starting the book with a chapter that explores the reasons behind the disconnect between the scientific and public understanding of climate change and ending the book with a discussion of the intersection of ethics and climate change Short topical expansions or excursions are included as boxes within selected chapters This book will serve as a basic resource for learning about the lessons that the paleoclimate record offers to evaluate the seriousness of modern and future climate change

The Philosophical Roots of the Ecological Crisis Joshtrom Isaac Kureethadam,2018-06-11 The Philosophical Roots of the Ecological Crisis Descartes and the Modern Worldview traces the conceptual sources of the present environmental degradation within the worldview of Modernity and particularly within the thought of Ren Descartes universally acclaimed as the father of modern philosophy The book demonstrates how the triple foundations of the Modern worldview in terms of an exaggerated anthropocentrism a mechanistic conception of the natural world and the metaphysical dualism between humanity and the rest of the physical world can all be largely traced back to Cartesian thought with direct ecological consequences [Climate Change](#)

Marie-Antoinette Mélières,Chloé Maréchal,2015-02-04 This book is designed for first and second year university students and their instructors in earth science environmental science and physical geography degree programmes worldwide The summaries at the end of each section constitute essential reading for policy makers and planners It provides a simple but masterly account with a minimum of equations of how the Earth's climate system works of the physical processes that have given rise to the long sequence of glacial and interglacial periods of the Quaternary and that will continue to cause the climate to evolve Its straightforward and elegant description with an abundance of well chosen illustrations focuses on different timescales and includes the most recent research in climate science by the United Nations Intergovernmental Panel on Climate Change IPCC It shows how it is human behaviour that will determine whether or not the present century is a turning point to a new climate unprecedented on Earth in the last several million years

Extreme Weather and Climate Change Maria Angelica Groves,2025-05-01 Do scientists expect the number and severity of extreme weather events to increase in a warming world Which parts of the world are most vulnerable to a future of weather catastrophes This resource considers all those questions and more as it explains the relationship between climate change and the increasing frequency and severity of extreme weather events such as hurricanes floods droughts and wildfires Opening chapters explain climate change trends throughout history providing readers with a foundational understanding of our current environmental moment This coverage is supplemented with extended discussion of the political and cultural factors shaping policy responses to the issue both historically and in the present day In addition Extreme Weather and Climate Change offers an extensive array of personal and scholarly essays and illuminating primary documents that discuss the issue from a range of scientific political and

cultural standpoints Building the Critical Anthropology of Climate Change Hans A. Baer, Merrill Singer, 2024-08-14 This book applies a critical perspective to anthropogenic climate change and the global socio ecological crisis The book focuses on the critical anthropology of climate change by opening up a dialogue with the two main contending perspectives in the field namely the cultural ecological and the cultural interpretive perspectives Guided by these the authors take a firm stance on the types of changes that are needed to sustain life on Earth as we know it Within this framework they explore issues of climate and social equity the nature of the current era in Earth s geohistory the perspectives of the elite polluters driving climate change and the regrettable contributions of anthropologists and other scholars to climate change Engaging with perspectives from sociology political science and the geography of climate change the book explores various approaches to thinking about and responding to the existential threat of an ever warming climate In doing so it lays the foundation for a brave new sustainable world that is socially just highly democratic and climatically safe for humans and other species This book will be of interest to researchers and students studying environmental anthropology climate change human geography sociology and political science

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