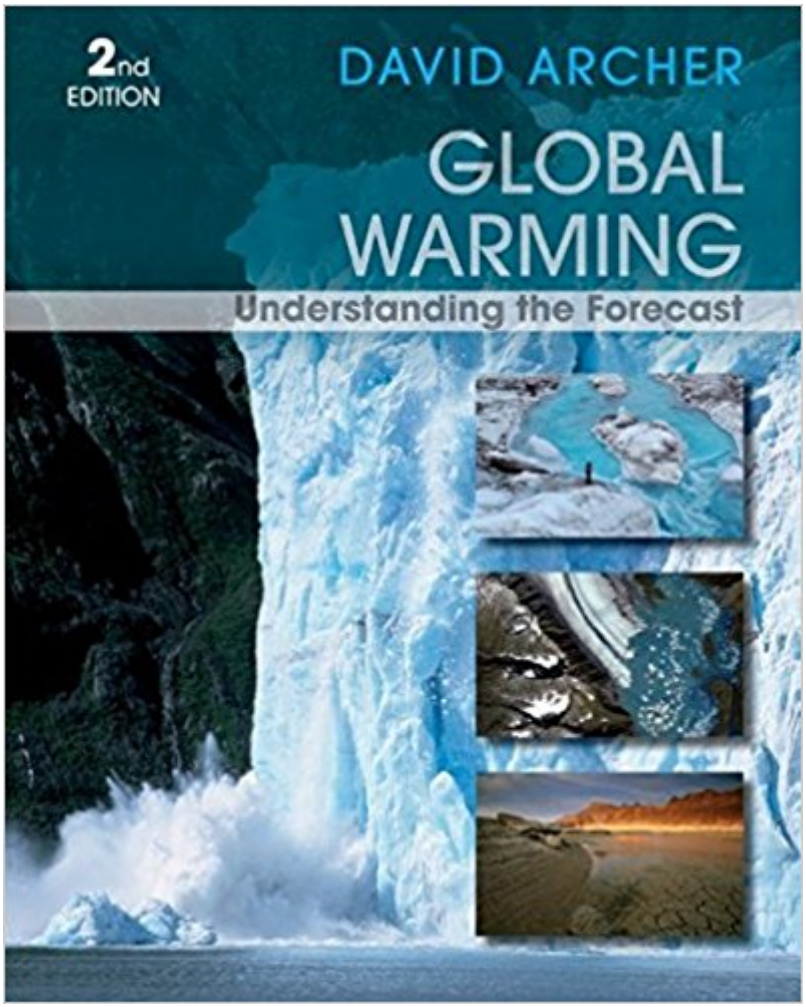
Global Warming: Understanding The Forecast



Synopsis

Archer's Global Warming: Understanding the Forecast 2nd Edition, is the first real text to present the science and policy surrounding climate change at the right level. Accompanying videos, simulations and instructional support makes it easier to build a syllabus to improve and create new material on climate change. Archer's polished writing style makes the text entertaining while the improved pedagogy helps better understand key concepts, ideas and terms. This edition has been revised and reformulated with a new chapter template of short chapter introductions, study questions at the end, and critical thinking puzzlers throughout. Also a new asset for the BCS was created that will give ideas for assignments and topics for essays and other projects. Furthermore, a number of interactive models have been built to help understand the science and systems behind the processes.

Book Information

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Customer Reviews

Q&A with Author David ArcherÃ Â Author David Archer Why do you think global warming is an important issue? Global warming is an important issue because its impacts can be pervasive, rearranging patterns of rainfall, agricultural viability, and the natural landscape. Also, the impacts of releasing CO2 in particular as a greenhouse gas are persistent; they won't just go away after a few years. What is the one thing you wish more people understood about global warming? That there really isn't any doubt that CO2 is a greenhouse gas, that adding CO2 to the atmosphere is already changing Earth's climate, and that there's no real scientific reason to hope that climate impacts in the future won't be severe, and worth avoiding. When did you first become interested in the subject

matter you teach? I am interested in the cycles and balances of chemicals through the environment, the way that the natural world keeps itself regulated and in balance. I went to oceanography school from my native Indiana without knowing much at all about the science of the oceans. My work in oceanography pertains to the carbon cycle; for example, how the CO2 concentrations of the air and water interact with each other. I started teaching this class to non-science majors, and found that non-scientists can understand the science, down to the fundamentals, if we start from the beginning. What would you say to people who donÃ¢â ¬â„¢t believe global warming is real and dispute the scientific evidence that backs it up? If there were scientific arguments on both sides, then they should be considered. But most of the arguments disputing a present and future human impact on climate seem to be constructed specifically to fool non-scientists, or to give them an excuse to discount the issue. What are the biggest contributors to global warming and is it possible to reverse the process? The biggest contributors to the problem are the people of the United States, who emit more CO2 per capita than just about anyone in the world. If the whole world were to adopt the American lifestyle, the rate of CO2 emission would increase by a factor of about five. We are leading the world to ruin. What can we expect in the next 100 years going forward, if global warming continues? I think droughts and storminess would be the most noticeable differences.

After taking a course on Climate Change, I wanted to read and study more about it on my own. I bought this book and haven't regretted it. David Archer begins with a chapter on "Humankind and Climate" and from there goes on to begin Part I "The Greenhouse Effect." Each chapter is followed up with Take Home Points which are statements to review and consider, Study Questions, Further Reading and lastly a series of Exercises.Part II covers "The Carbon Cycle" with three chapters on Carbon on Earth, Fossil Fuels and Energy, and The Perturbed Carbon Cycle. Part III is "The Forecast" which covers, among other things, Potential Climate Impacts." In Part I the author includes a chapter on Weather and Climate, and from my own experience with people who don't believe in Climate Change, many don't know the difference between the two, so a good discussion is necessary, as well as mankind's part in the problem.The book also covers numerical modeling and has colorplates of maps of climate model annual mean temperature, maps of climate model temperature changes from the year 2000 and various maps of climate model precipitation."Global Warming: Understanding the Forecast" by David Archer is a textbook for undergraduates who are non-science majors, but I am able to follow it myself after a thorough course on Climate Change that went into numerical modeling in much more detail than this book does. It is a good book to help understand the problem.The book takes into consideration the roles of economics, population and

land use in Global Warming and considers some solutions.Highly recommended.

This was an informative textbook for my global climate change masters class. I am actually not going to resell it because it has good information and resources. The seller was quick with shipping and the price point was awesome.

This is an excellent and concise review of the science behind global warming. I appreciated that the author provides online access to lots of different models that allow you to play with the data yourself. This really helps with understanding the forces at work and how they're interconnected. It also gives you a sense for where our gaps in knowledge are, and how uncertainties affect our predictions of future climate change.One important note: I used the online version of the book, and found that the links the models are all broken because the URLs have changed since the book was published. If you find that this hasn't been fixed, Google the names of the models and you should be able to find them.

Mr Archer's book is a scientific, detailed treatment of the subject of climate change. I bought the book for the Coursera Climate change course, taught by Archer, that works through the entire book. You will understand what we know, how we know it, and the areas that hold the most uncertainty. After reading this book, I can read and understand scholarly papers on climate change issues. I highly recommend it.

Need it for class plus it's super light to carry.

This book was very helpful in understanding global warming and it help me study for the test.

A necessary purchase for grad school. Great introductory book - I highly recommend!

good

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