



[PDF] The Climate Casino: Risk, Uncertainty, And Economics For A Warming World

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The Climate Casino-William D. Nordhaus 2013-10-22 Climate change is profoundly altering our world in ways that pose major risks to human societies and natural systems. We have entered the Climate Casino and are rolling the global-warming dice, warns economist William Nordhaus. But there is still time to turn around and walk back out of the casino, and in this essential book the author explains how.div /DIVdivBringing together all the important issues surrounding the climate debate, Nordhaus describes the science, economics, and politics involved—and the steps necessary to reduce the perils of global warming. Using language accessible to any concerned citizen and taking care to present different points of view fairly, he discusses the problem from start to finish: from the beginning, where warming originates in our personal energy use, to the end, where societies employ regulations or taxes or subsidies to slow the emissions of gases responsible for climate change./DIVdiv /DIVdivNordhaus offers a new analysis of why earlier policies, such as the Kyoto Protocol, failed to slow carbon dioxide emissions, how new approaches can succeed, and which policy tools will most effectively reduce emissions. In short, he clarifies a defining problem of our times and lays out the next critical steps for slowing the trajectory of global warming./DIV

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The Climate Casino-William Nordhaus 2013-10-22 Presents an analysis of the economics and politics of the central environmental issue and discusses the steps necessary to reduce the perils of global warming.

A Question of Balance-William Nordhaus 2014-10-01 How economic analysis can help us design economic policies to address the looming challenges of global warming As scientific and observational evidence on global warming piles up every day, questions of economic policy in this central environmental topic have taken center stage. But as author and prominent Yale economist William Nordhaus observes, the issues involved in understanding global warming and slowing its harmful effects are complex and cross disciplinary boundaries. For example, ecologists see global warming as a threat to ecosystems, utilities as a debit to their balance sheets, and farmers as a hazard to their livelihoods. In this important work, William Nordhaus integrates the entire spectrum of economic and scientific research to weigh the costs of reducing emissions against the benefits of reducing the long-run damages from global warming. The book offers one of the most extensive analyses of the economic and environmental dynamics of greenhouse-gas emissions and climate change and provides the tools to evaluate alternative approaches to slowing global warming. The author emphasizes the need to establish effective mechanisms, such as carbon taxes, to harness markets and harmonize the efforts of different countries. This book not only will shape discussion of one the world's most pressing problems but will provide the rationales and methods for achieving widespread agreement on our next best move in alleviating global warming.

Warming the World-William D. Nordhaus 2000 This book presents in detail a pair of models of the economics of climate change. The models, called RICE-99 (for the Regional Dynamic Integrated model of Climate and the Economy) and DICE-99 (for the Dynamic Integrated Model of Climate and the Economy) build on the authors' earlier work, particularly their RICE and DICE models of the early 1990s. Humanity is risking the health of the natural environment through a myriad of interventions, including the atmospheric emission of trace gases such as carbon dioxide, the use of ozone-depleting chemicals, the engineering of massive land-use changes, and the destruction of the habitats of many species. It is imperative that we learn to protect our common geophysical and biological resources. Although scientists have studied greenhouse warming for decades, it is only recently that society has begun to consider the economic, political, and institutional aspects of environmental intervention. To do so raises formidable challenges of data modeling, uncertainty, international coordination, and institutional design. Attempts to deal with complex scientific and economic issues have increasingly involved the use of models to help analysts and decision makers understand likely future outcomes as well as the implications of alternative policies. This book presents in detail a pair of models of the economics of climate change. The models, called RICE-99 (for the Regional Dynamic Integrated model of Climate and the Economy) and DICE-99 (for the Dynamic Integrated Model of Climate and the Economy) build on the authors' earlier work, particularly their RICE and DICE models of the early 1990s. They can help policy makers design better economic and environmental policies.

Managing the Global Commons-William D. Nordhaus 1994-10-04 Provides a detailed analysis of the DICE model (Dynamic Integrated model of Climate and the Economy) as well as an extensive analysis of the model's results.

Science as a Contact Sport-Stephen H. Schneider 2009 Schneider's firsthand account of a scientific and political odyssey, in which he navigates both the turbulent waters of the world's power structures and the arcane theater of academic debaters.

Climate Change: A Wicked Problem-Frank P. Incropera 2015-10-31 A pragmatic, no-holds-barred, assessment of climate change, for anyone wishing to be fully informed on the topic.

Economic Risks of Climate Change-Trevor Houser 2015-08-18 Climate change threatens the economy of the United States in myriad ways, including increased flooding and storm damage, altered crop yields, lost labor productivity, higher crime, reshaped public-health patterns, and strained energy systems, among many other effects. Combining the latest climate models, state-of-the-art econometric research on human responses to climate, and cutting-edge private-sector risk-assessment tools, Economic Risks of Climate Change: An American Prospectus crafts a game-changing profile of the economic risks of climate change in the United States. This prospectus is based on a critically acclaimed independent assessment of the economic risks posed by climate change commissioned by the Risky Business Project. With

new contributions from Karen Fisher-Vanden, Michael Greenstone, Geoffrey Heal, Michael Oppenheimer, and Nicholas Stern and Bob Ward, as well as a foreword from Risky Business cochairs Michael Bloomberg, Henry Paulson, and Thomas Steyer, the book speaks to scientists, researchers, scholars, activists, and policy makers. It depicts the distribution of escalating climate-change risk across the country and assesses its effects on aspects of the economy as varied as hurricane damages and violent crime. Beautifully illustrated and accessibly written, this book is an essential tool for helping businesses and governments prepare for the future.

Can We Afford the Future?-Doctor Frank Ackerman 2010-08-17 According to many scientists, climate change is a growing threat to life as we know it, requiring a large-scale, immediate response. According to many economists, climate change is a moderately important problem; the best policy is a slow, gradual start, to avoid spending too much. They can't both be right. In this book, Frank Ackerman offers a refreshing look at the economics of climate change, explaining how the arbitrary assumptions of conventional theories get in the way of understanding this urgent problem. The benefits of climate protection are vital but priceless, and hence often devalued in cost-benefit calculations. Preparation for the most predictable outcomes of global warming is less important than protection against the growing risk of catastrophic change; massive investment in new, low carbon technologies and industries should be thought of as life insurance for the planet. Ackerman makes an impassioned plea to construct a better economics, arguing that the solutions are affordable and the alternative is unthinkable. If we can't afford the future, what are we saving our money for? Can we Afford the Future? is part of The New Economics series, which uses the ideas behind a new, more human economics to provide a fresh way of looking at major contemporary issues.

Climate Shock-Gernot Wagner 2016-04-19 How knowing the extreme risks of climate change can help us prepare for an uncertain future If you had a 10 percent chance of having a fatal car accident, you'd take necessary precautions. If your finances had a 10 percent chance of suffering a severe loss, you'd reevaluate your assets. So if we know the world is warming and there's a 10 percent chance this might eventually lead to a catastrophe beyond anything we could imagine, why aren't we doing more about climate change right now? We insure our lives against an uncertain future—why not our planet? In Climate Shock, Gernot Wagner and Martin Weitzman explore in lively, clear terms the likely repercussions of a hotter planet, drawing on and expanding from work previously unavailable to general audiences. They show that the longer we wait to act, the more likely an extreme event will happen. A city might go underwater. A rogue nation might shoot particles into the Earth's atmosphere, geoengineering cooler temperatures. Zeroing in on the unknown extreme risks that may yet dwarf all else, the authors look at how economic forces that make sensible climate policies difficult to enact, make radical would-be fixes like geoengineering all the more probable. What we know about climate change is alarming enough. What we don't know about the extreme risks could be far more dangerous. Wagner and Weitzman help readers understand that we need to think about climate change in the same way that we think about insurance—as a risk management problem, only here on a global scale. With a new preface addressing recent developments Wagner and Weitzman demonstrate that climate change can and should be dealt with—and what could happen if we don't do so—tackling the defining environmental and public policy issue of our time.

America's Climate Problem-Robert Repetto 2012-06-25 What America does - or fails to do - in the next few years to solve the problem of climate change will largely determine the fate of the earth and humanity for centuries to come. Despite the efforts by some states, local governments and individual citizens to respond, controversy still embroils national efforts to come up with a solution. This book by Robert Repetto, a leading environmental economist, lets the reader cut through the confusion and political rhetoric and understand the way to resolve the climate problem. It explains in clear, accessible language how a sensible national policy to reduce greenhouse gas emissions can bring about a transition to clean energy sources while preserving healthy economic growth and high standards of living. It shows where the pitfalls are in developing a climate solution, how they can be avoided, and how to bring resistant interest groups on board. America cannot act alone but other nations will not take action if the United States does not lead, and this book explains how America can successfully promote international cooperation on climate solutions. Never has there been an environmental problem of such importance. Every citizen will benefit from the insight this book provides in solving it successfully.

Scenario Planning for Climate Change-Nardia Haigh 2019-06-25 Climate change, and the resultant impact on resource management and societal wellbeing, is one of the greatest challenges facing businesses and their long-term performance. Uncertainty about access to resources, unanticipated weather events, rapidly changing market conditions and potential social unrest is felt across all business and industry sectors. This book sets out an engaging step-by-step scenario-planning method that executives, Board members, managers and consultants can follow to develop a long-term strategy for climate change tailored for their business. Most climate change strategy books discuss climate mitigation only, focusing on how companies engage with carbon policy, new technologies, markets and other stakeholders about reducing carbon emissions. This book explores these themes but also looks at strategizing for climate change adaptation. Adaptation is equally important, especially given that companies cannot negotiate with nature. There is a need to interpret climate science for business in a way that acknowledges the realities of climate change and identifies a way forwards in responding to this uncertain future.

Reason in a Dark Time-Dale Jamieson 2014-02-28 From the 1992 Rio Earth Summit to the 2009 Copenhagen Climate Conference there was a concerted international effort to stop climate change. Yet greenhouse gas emissions increased, atmospheric concentrations grew, and global warming became an observable fact of life. In this book, philosopher Dale Jamieson explains what climate change is, why we have failed to stop it, and why it still matters what we do. Centered in philosophy, the volume also treats the scientific, historical, economic, and political dimensions of climate change. Our failure to prevent or even to respond significantly to climate change, Jamieson argues, reflects the impoverishment of our systems of practical reason, the paralysis of our politics, and the limits of our cognitive and affective capacities. The climate change that is underway is remaking the world in such a way that familiar comforts, places, and ways of life will disappear in years or decades rather than centuries. Climate change also threatens our sense of meaning, since it is difficult to believe that our individual actions matter. The challenges that climate change presents go beyond the resources of common sense morality -- it can be hard to view such everyday acts as driving and flying as presenting moral problems. Yet there is much that we can do to slow climate change, to adapt to it and restore a sense of agency while living meaningful lives in a changing world.

Climate Economics-Richard S.J. Tol This unique and erudite second edition can be used at three different levels - advanced undergraduate, post-graduate and doctoral. It comprehensively covers the critical issues on the economics of climate change and climate policy features and clearly identifies the specific sections each level of reader should explore. Topics include the costs and benefits of adaptation and mitigation, discounting, uncertainty, policy instruments, and international agreements. Lectures can be combined with exercises, guided reading, or the building and application of an integrated assessment model. The book is accompanied by a website with background material, data, opinion pieces and videos. Although primarily intended for use in the classroom, anyone with an interest in climate policy can use this text as a reference.

Climate Change Science-National Research Council 2001-06-28 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.

Global Carbon Pricing-Peter Cramton 2017-06-16 Why the traditional “pledge and review” climate agreements have failed, and how carbon pricing, based on trust and reciprocity, could succeed. After twenty-five years of failure, climate negotiations continue to use a “pledge and review” approach: countries pledge (almost anything), subject to (unenforced) review. This approach ignores everything we know about human cooperation. In this book, leading economists describe an alternate model for climate agreements, drawing on the work of the late Nobel laureate Elinor Ostrom and others. They show that a “common commitment” scheme is more effective than an “individual commitment” scheme; the latter depends on altruism while the former involves reciprocity (“we will if you will”). The contributors propose that global carbon pricing is the best candidate for a reciprocal common commitment in climate negotiations. Each country would commit to placing charges on carbon emissions sufficient to match an agreed global price formula. The contributors show that carbon pricing would facilitate negotiations and enforcement, improve efficiency and flexibility, and make other climate policies more effective. Additionally, they analyze the failings of the 2015 Paris climate conference. Contributors Richard N. Cooper, Peter Cramton, Ottmar Edenhofer, Christian Gollier, Éloi Laurent, David JC MacKay, William Nordhaus, Axel Ockenfels, Joseph E. Stiglitz, Steven Stoft, Jean Tirole, Martin L. Weitzman

Why Are We Waiting?-Nicholas Stern 2015-04-24 An urgent case for climate change action that forcefully sets out, in economic, ethical, and political terms, the dangers of delay and the benefits of action. The risks of climate change are potentially immense. The benefits of taking action are also clear: we can see that economic development, reduced emissions, and creative adaptation go hand in hand. A committed and strong low-carbon transition could trigger a new wave of economic and technological transformation and investment, a new era of global and sustainable prosperity. Why, then, are we waiting? In this book, Nicholas Stern explains why, notwithstanding the great attractions of a new path, it has been so difficult to tackle climate change effectively. He makes a compelling case for climate action now and sets out the forms that action should take. Stern argues that the risks and costs of climate change are worse than estimated in the landmark Stern Review in 2006—and far worse than implied by standard economic models. He reminds us that we have a choice. We can rely on past technologies, methods, and institutions—or we can embrace change, innovation, and international collaboration. The first might bring us some short-term growth but would lead eventually to chaos, conflict, and destruction. The second could bring about better lives for all and growth that is sustainable over the long term, and help win the battle against worldwide poverty. The science warns of the dangers of neglect; the economics and technology show what we can do and the great benefits that will follow; an examination of the ethics points strongly to a moral imperative for action. Why are we waiting?

Windfall-McKenzie Funk 2015-01-27 An award-winning journalist shares the stories of entrepreneurs who are realizing marketing opportunities associated with global warming, from Israeli artificial snow-makers and private firefighters in California to fund managers backing Sudanese warlords and the Dutch architects of floating cities.

An Introduction to Climate Change Economics and Policy-Felix R. FitzRoy 2016-04-14 The 2nd edition of An Introduction to Climate Change Economics and Policy explains the key scientific, economic and policy issues related to climate change in a completely up-to-date introduction for anyone interested, and students at all levels in various related courses, including environmental economics, international development, geography, politics and international relations. FitzRoy and Papyrakis highlight how economists and policymakers often misunderstand the science of climate change, underestimate the growing threat to future civilization and survival and exaggerate the costs of radical measures needed to stabilize the climate. In contrast, they show how direct and indirect costs of fossil fuels – particularly the huge health costs of local pollution – actually exceed the investment needed for transition to an almost zero carbon economy in two or three decades using available technology.

The Melting World-Christopher White 2013-09-03 The author of Skipjack documents concerning evidence of adverse climate change in the Rocky Mountains, where climate scientist and ecologist Dan Fagre reveals how a rapid decline of alpine glaciers is threatening the mountain ecosystem.

Climate Risk-Bob Litterman 2021-04-19 Climate change is fundamentally a risk management problem Climate Risk examines climate change as a risk management issue, detailing the problems inherent in that necessary but complex perspective. Written by a recognized risk management leader, this book details the impact of climate change on both the current economy, and the economy of future generations. Drawing on the insight of a team of Nobel Prize-winning economists, this informative book outlines the factors that make it difficult to price carbon emissions correctly, discusses the perspectives surrounding carbon emission taxation, and explores the probability of various climate change scenarios in the context of damages and valuation. Readers will find detailed arguments for why risk managers should already be taking climate change seriously, and delve into the economic analysis of this global problem. Pricing climate risk properly is key to making the economy work long-term while also being mindful of the potential tail risk and uncertainty that humans often ignore. People are not very good at making rational decisions about rare outcomes, raising the concern of an overreaction when society finally does react to the risk of climate catastrophe and begins to price it. This book explores the critical question of how much climate risk insurance to buy – that is, where to price carbon dioxide emissions. Examine climate change as a risk management problem Delve into the issues surrounding carbon emission pricing Consider appropriate tax levels for emissions Learn how the future economy will be impacted by climate change Damages from climate change won't hit the economy for a while, and the potential for a low-probability/high-damage scenario is so uncertain that it is only recently being discussed academically. Risk managers must be prepared for what's to come, and Climate Risk begins the conversation with some of the best minds in the industry.

The Swedish Nuclear Dilemma-William D. Nordhaus 2014-04-04 Renowned economist William Nordhaus has developed many innovative approaches for analyzing complex environmental questions. He applies them to the possible phaseout of nuclear power in Sweden in The Swedish Nuclear Dilemma: Energy and the Environment. While making a major contribution to that debate, this book has value that extends well beyond the Swedish issue, to the careful and well-informed consideration of environmental and energy questions that industrialized nations and developing regions now face. It is essential for anyone interested in nuclear-power issues and climate change. The Swedish parliament has moved closer to eliminating nuclear energy, even while repeating commitments to reduce the greenhouse-gas emissions associated with fossil fuels. Nordhaus's Swedish Energy and Environmental Policy (SEEP) model quantifies the economic results of such a path. He analyzes the impact of factors such as deregulation of electricity generation, global climate-change policies, the decline of Sweden's economic growth, and the rethinking of its welfare state. He also sets the stage for more informed analysis of similarly difficult issues where economic and environmental goals clash.

The Cartoon Introduction to Climate Change-Yoram Bauman 2014-06-05 Climate change is no laughing matter—but maybe it should be. The topic is so critical that everyone, from students to policy-makers to voters, needs a quick and easy guide to the basics. The Cartoon Introduction to Climate Change entertains as it educates, delivering a unique and enjoyable presentation of mind-blowing facts and critical concepts."Stand-up economist" Yoram Bauman and award-winning illustrator Grady Klein have created the funniest overview of climate science, predictions, and policy that you'll ever read. You'll giggle, but you'll also learn—about everything from Milankovitch cycles to carbon taxes.If those subjects sound daunting, consider that Bauman and Klein have already written two enormously successful cartoon guides to economics, making this notoriously dismal science accessible to countless readers. Bauman has a PhD in economics and has taught at both the high school and college level, but he now makes a living performing at comedy clubs, universities, and conferences, sharing the stage with personalities as diverse as Robin Williams and Paul Krugman.The authors know how to get a laugh—and they know their facts. This cartoon introduction is based on the latest report from the authoritative

Intergovernmental Panel on Climate Change (IPCC) and integrates Bauman’s expertise on economics and policy.If economics can be funny, then climate science can be a riot. Sociologists have argued that we don’t address global warming because it’s too big and frightening to get our heads around. The Cartoon Introduction to Climate Change takes the intimidation and gloom out of one of the most complex and hotly debated challenges of our time.

Sense and Solidarity-Jean Drèze 2019-02-14 This is an open access title available under the terms of a CC BY-NC-ND 4.0 licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations. Jean Drèze has a rare and distinctive understanding of the Indian economy and its relationship with the social life of ordinary people. He has travelled widely in rural India and done fieldwork of a kind that few economists have attempted. In Sense and Solidarity Drèze offers unique insight on issues of hunger, inequality, conflict, and the evolution of social policy in India over roughly the past two decades. Historic legislations and initiatives of the period, relating for instance to the right to food and the right to work, are all scrutinised and explained, as are the fierce debates that often accompanied them. "Jholawala" has become a disparaging term for activists in the Indian business media. This book affirms the learning value of collective action combined with sound economic analysis. In his detailed introduction, the author argues for an approach to development economics where research and action are complementary and interconnected.Sense and Solidarity spans the gamut of critical social policies, from education and health to poverty, nutrition, child care, corruption, employment, and social security. There are also less predictable topics such as the caste system, corporate power, nuclear disarmament, the Gujarat model, the Kashmir conflict, and universal basic income. Sense and Solidarity enlarges the boundaries of social development towards a broad concern with the sort of society we want to create.

Trade Wars are Class Wars-Matthew C. Klein 2020-01-01 "This is a very important book."--Martin Wolf, Financial TimesA provocative look at how today's trade conflicts are caused by governments promoting the interests of elites at the expense of workers Longlisted for the 2020 Financial Times & McKinsey Business Book of the Year Award "Worth reading for [the authors'] insights into the history of trade and finance."--George Melloan, Wall Street Journal Trade disputes are usually understood as conflicts between countries with competing national interests, but as Matthew C. Klein and Michael Pettis show, they are often the unexpected result of domestic political choices to serve the interests of the rich at the expense of workers and ordinary retirees. Klein and Pettis trace the origins of today's trade wars to decisions made by politicians and business leaders in China, Europe, and the United States over the past thirty years. Across the world, the rich have prospered while workers can no longer afford to buy what they produce, have lost their jobs, or have been forced into higher levels of debt. In this thought-provoking challenge to mainstream views, the authors provide a cohesive narrative that shows how the class wars of rising inequality are a threat to the global economy and international peace—and what we can do about it.

Beyond Politics-Michael P. Vandenbergh 2017-12-21 Private sector action provides one of the most promising opportunities to reduce the risks of climate change, buying time while governments move slowly or even oppose climate mitigation. Starting with the insight that much of the resistance to climate mitigation is grounded in concern about the role of government, this books draws on law, policy, social science, and climate science to demonstrate how private initiatives are already bypassing government inaction in the US and around the globe. It makes a persuasive case that private governance can reduce global carbon emissions by a billion tons per year over the next decade. Combining an examination of the growth of private climate initiatives over the last decade, a theory of why private actors are motivated to reduce emissions, and a review of viable next steps, this book speaks to scholars, business and advocacy group managers, philanthropists, policymakers, and anyone interested in climate change.

Climate Change and Society-Riley E. Dunlap 2015-08-24 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 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.

Perspectives de l'emploi-Organisation for Economic Co-operation and Development 2016-04 This report provides a new, detailed, quantitative assessment of the consequences of climate change on economic growth through 2060 and beyond. It focuses on how climate change affects different drivers of growth, including labor productivity and capital supply, in different sectors across the world. The sectoral and regional analysis shows that while the impacts of climate change spread across all sectors and all regions, the largest negative consequences are projected to be found in the health and agricultural sectors, with damages especially strong in Africa and Asia.

Efficient Use of Energy Resources-W. D. Nordhaus 1979

Economics and Policy Issues in Climate Change-William D. Nordhaus 2013-11-26 Although the negotiation of the Kyoto Protocol focused world attention on the global climate, it was just one step in the ongoing process of addressing climate change in all its facets. Research by the UN's Intergovernmental Panel on Climate Change (IPCC) has been ongoing since 1988. An extensive IPCC Working Group report published in 1995 examined the economic and social aspects of climate change. In this volume, eminent analysts assess that IPCC report and address the questions that emerge from it. The result is an instructive and cogent look at the realities of climate change and some methods (and difficulties) of dealing with them. William Nordhaus's introduction establishes the context for the book. It provides basic scientific background on climate change, reviews the IPCC's activities, and explains the genesis of the analyses. Subsequent contributions fall into two categories. Early chapters review analytical issues critical to social and economic understanding of climate change. A second set of chapters address specific economic questions surrounding climate-change policy. The result is an original and significant contribution to the evolving debate on this crucial hot-button topic.

Potential Impacts of Climate Change on U.S. Transportation-Committee on Climate Change and U.S. Transportation 2008-07-16 While every mode of transportation in the U.S. will be affected as the climate changes, potentially the greatest impact on transportation systems will be flooding of roads, railways, transit systems, and airport runways in coastal areas because of rising sea levels and surges brought on by more intense storms, says a new report from the National Research Council. Though the impacts of climate change will vary by region, it is certain they will be widespread and costly in human and economic terms, and will require significant changes in the planning, design, construction, operation, and maintenance of transportation systems. The U.S. transportation system was designed and built for local weather and climate conditions, predicated on historical temperature and precipitation data. The report finds that climate predictions used by transportation planners and engineers may no longer be reliable, however, in the face of new weather and climate extremes. Infrastructure pushed beyond the range for which it was designed can become stressed and fail, as seen with loss of the U.S. 90 Bridge in New Orleans after Hurricane Katrina.

Risk, Uncertainty and Profit-Frank H (Frank Hyneman) 1885-1 Knight 2018-10-14 This work has been selected by scholars as being culturally important and is part

of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Economics-Paul Samuelson 2009 Samuelson's text was first published in 1948, and it immediately became the authority for the principles of economics courses. The book continues to be the standard-bearer for principles courses, and this revision continues to be a clear, accurate, and interesting introduction to modern economics principles. Bill Nordhaus is now the primary author of this text, and he has revised the book to be as current and relevant as ever.

Transforming Energy-Anthony Patt 2015-07-22 This book shows how promoting clean energy technologies - from solar panels to electric cars - can end human-induced climate change.

Handbook of the Economics of Risk and Uncertainty-Mark Machina 2013-11-14 The need to understand the theories and applications of economic and finance risk has been clear to everyone since the financial crisis, and this collection of original essays proffers broad, high-level explanations of risk and uncertainty. The economics of risk and uncertainty is unlike most branches of economics in spanning from the individual decision-maker to the market (and indeed, social decisions), and ranging from purely theoretical analysis through individual experimentation, empirical analysis, and applied and policy decisions. It also has close and sometimes conflicting relationships with theoretical and applied statistics, and psychology. The aim of this volume is to provide an overview of diverse aspects of this field, ranging from classical and foundational work through current developments. Presents coherent summaries of risk and uncertainty that inform major areas in economics and finance Divides coverage between theoretical, empirical, and experimental findings Makes the economics of risk and uncertainty accessible to scholars in fields outside economics

Light of the Stars: Alien Worlds and the Fate of the Earth-Adam Frank 2018-06-12 Winner of the 2019 Phi Beta Kappa Award for Science "A valuable perspective on the most important problem of our time." —Adam Becker, NPR Light of the Stars tells the story of humanity's coming of age as we realize we might not be alone in this universe. Astrophysicist Adam Frank traces the question of alien life from the ancient Greeks to modern thinkers, and he demonstrates that recognizing the

possibility of its existence might be the key to save us from climate change. With clarity and conviction, Light of the Stars asks the consequential question: What can the likely presence of life on other planets tell us about our own fate?

Wargaming for Leaders: Strategic Decision Making from the Battlefield to the Boardroom-Mark L. Herman 2008-12-01 If you had the opportunity to probe the future, make strategic choices, and view their consequences before making expensive and irretrievable decisions, wouldn't you take advantage of it? Of course you would. And in a world of asymmetrical conflict, security threats, intense global competition, and economic uncertainty, there is an even higher premium on road-testing plans and strategies--whether they're spearheaded by government organizations, transnational corporations, or emerging megacommunities. Wargaming for Leaders provides a methodology to get at the issues that one leader, no matter how visionary, cannot grasp on his or her own. How? By bringing together the real experts on the topic at hand to wage "cognitive warfare." Through tapping the collective wisdom surrounding an issue, experts can experience the future in a risk-free environment and find answers to questions that had not been on their radar--often with unexpected and startling results. With examples from the fields of military, corporate, and public policy, three wargaming developers from Booz Allen Hamilton deliver compelling insights on this problem-solving method, including fascinating details on how A large equipment manufacturer determined whether making a merger was strategically right for its business growth, as well as which technology investments it needed to drop A four-star U.S. general tested his war plan for Iraq and uncovered specific fixes that might have prevented a prolonged conflict An increasingly clogged air-traffic system faced a security-versus-convenience issue determined whether military airspace could be used during peak demand periods Wargaming allows organizations of every type and every size to organize information, plot out scenarios, and tap into the collective expertise of participants. The results allow everyone to identify and tackle obstacles, solve problems, and find new ways to innovate and further performance goals. Get ready for the battle of your organizational life--and prepare to reap the spoils of victory.

Economic Growth- 1972

This Changes Everything-Naomi Klein 2014-09-16 Explains why the environmental crisis should lead to an abandonment of "free market" ideologies and current political systems, arguing that a massive reduction of greenhouse emissions may offer a best chance for correcting problems.