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## **MEMORANDUM**

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# Physical Science 2013 Memorandum

**National Academies of Sciences,  
Engineering, and Medicine, Division on  
Engineering and Physical  
Sciences, Space Studies  
Board, Committee on Best Practices for  
a Future Open Code Policy for NASA  
Space Science**

## **Physical Science 2013 Memorandum:**

*This Changes Everything* Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine* a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities re-imagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long-festered historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration-based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

**Reproducibility and Replicability in Science** National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Committee on Science, Engineering, Medicine, and Public Policy, Board on Research Data and Information, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on Reproducibility and Replicability in Science, 2019-09-20 One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it When a scientific effort fails to independently confirm the computations or results of a previous study some fear that it may be a symptom of a lack of rigor in science while others argue that such an observed inconsistency can be an important precursor to new discovery Concerns about reproducibility and replicability have been expressed in both scientific and popular media As these concerns came to light Congress requested that the National Academies of Sciences Engineering and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer

recommendations for improving rigor and transparency in scientific research

**Reproducibility and Replicability in Science** defines reproducibility and replicability and examines the factors that may lead to non reproducibility and non replicability in research Unlike the typical expectation of reproducibility between two computations expectations about replicability are more nuanced and in some cases a lack of replicability can aid the process of scientific discovery This report provides recommendations to researchers academic institutions journals and funders on steps they can take to improve reproducibility and replicability in science

Open Source Software Policy Options for NASA Earth and Space Sciences National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Best Practices for a Future Open Code Policy for NASA Space Science, 2019-01-27 Modern science is ever more driven by computations and simulations In particular the state of the art in space and Earth science often arises from complex simulations of climate space weather and astronomical phenomena At the same time scientific work requires data processing presentation and analysis through broadly available proprietary and community software 1 Implicitly or explicitly software is central to science Scientific discovery understanding validation and interpretation are all enhanced by access to the source code of the software used by scientists This report investigates and recommends options for NASA's Science Mission Directorate SMD as it considers how to establish a policy regarding open source software to complement its existing policy on open data In particular the report reviews existing data and software policies and the lessons learned from the implementation of those policies summarizes community perspectives and presents policy options and recommendations for implementing an open source software policy for NASA SMD

**Telecommunications Research and Engineering at the Institute for Telecommunication Sciences of the Department of Commerce** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Telecommunications Research and Engineering at the Department of Commerce's Boulder Laboratories, 2015-11-30 The Department of Commerce operates two telecommunications research laboratories located at the Department of Commerce's Boulder Colorado campus the National Telecommunications and Information Administration's NTIA's Institute for Telecommunications Sciences ITS and the National Institute of Standards and Technology's NIST's Communications Technology Laboratory CTL ITS serves as a principal federal resource for solving the telecommunications concerns of federal agencies state and local governments private corporations and associations standards bodies and international organizations ITS could provide an essential service to the nation by being a principal provider of instrumentation and spectrum measurement services however the inter related shortages of funding staff and a coherent strategy limits its ability to fully function as a research laboratory This report examines the institute's performance resources and capabilities and the extent to which these meet customer needs The Boulder telecommunications laboratories currently play an important role in the economic vitality of the country and can play an even greater role given the importance of

access to spectrum and spectrum sharing to the wireless networking and mobile cellular industries Research advances are needed to ensure the continued evolution and enhancement of the connected world the public has come to expect *The Secure and the Dispossessed* Nick Buxton,Ben Hayes,2015-11-20 While the world s scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants *The Secure and the Dispossessed* looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures *The Routledge Handbook of Social Studies of Outer Space* Juan Francisco Salazar,Alice Gorman,2023-07-10 *The Routledge Handbook of Social Studies of Outer Space* offers state of the art overview of contemporary social and cultural research on outer space International in scope the thirty eight contributions by over fifty leading researchers and artists across a variety of disciplines and fields of knowledge present a range of debates and pose key questions about the crafting of futures in relation to outer space The Handbook is a call to attend more carefully to engagements with outer space empirically affectively and theoretically while characterizing current research practices and outlining future research agendas This recalibration opens profound questions of intersectional politics race equity and environmental justice around the contested topics of space exploration and life off Earth Among the many themes included in the volume are the various infrastructures networks and systems that enable and sustain space exploration space heritage the ethics of outer space social and environmental justice fundamental debates about life in outer space as it pertains to both astrobiology and SETI the study of scientific communities the human body and consciousness Indigenous astronomical systems of Knowledge contemporary space art and ongoing critical interventions to overcome the legacies of colonialism and dismantle hegemonic narratives of outer space **Telecommunications Research and Engineering at the Communications Technology Laboratory of the Department of Commerce** National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Computer Science and Telecommunications Board,Committee on Telecommunications Research and Engineering at the Department of Commerce's Boulder Laboratories,2015-11-30 The Department of Commerce operates two telecommunications research laboratories located at the Department of Commerce s Boulder Colorado campus the National Telecommunications and Information Administration s NTIA s Institute for Telecommunications Sciences ITS and the National Institute of Standards and Technology s NIST s Communications Technology Laboratory CTL CTL develops appropriate measurements and standards to

enable interoperable public safety communications effective and efficient spectrum use and sharing and advanced communication technologies CTL is a newly organized laboratory within NIST formed mid 2014 As it is new and its planned work represents a departure from that carried out by the elements of which it was composed this study focuses on its available resources and future plans rather than past work The Boulder telecommunications laboratories currently play an important role in the economic vitality of the country and can play an even greater role given the importance of access to spectrum and spectrum sharing to the wireless networking and mobile cellular industries Research advances are needed to ensure the continued evolution and enhancement of the connected world the public has come to expect      **Research**

**Progress on Environmental, Health, and Safety Aspects of Engineered Nanomaterials** National Research Council, Division on Engineering and Physical Sciences, Division on Earth and Life Studies, National Materials and Manufacturing Board, Board on Chemical Sciences and Technology, Board on Environmental Studies and Toxicology, Committee to Develop a Research Strategy for Environmental, Health, and Safety Aspects of Engineered Nanomaterials, 2013-12-25 Despite the increase in funding for research and the rising numbers of peer reviewed publications over the past decade that address the environmental health and safety aspects of engineered nanomaterials ENMs uncertainty about the implications of potential exposures of consumers workers and ecosystems to these materials persists Consumers and workers want to know which of these materials they are exposed to and whether the materials can harm them Industry is concerned about being able to predict with sufficient certainty whether products that it makes and markets will pose any environmental health or safety issues and what measures should be taken regarding manufacturing practices and worldwide distribution to minimize any potential risk However there remains a disconnect between the research that is being carried out and its relevance to and use by decision makers and regulators to make informed public health and environmental policy and regulatory decisions Research Progress on Environmental Health and Safety Aspects of Nanomaterials evaluates research progress and updates research priorities and resource estimates on the basis of results of studies and emerging trends in the nanotechnology industry This report follows up the 2012 report A Research Strategy for Environmental Health and Safety Aspects of Engineered Nanomaterials which presented a strategic approach for developing the science and research infrastructure needed to address uncertainties regarding the potential environmental health and safety risks posed by ENMs This new report looks at the state of nanotechnology research examines market and regulatory conditions and their affect on research priorities and considers the criteria for evaluating research progress on the environmental health and safety aspects of nanotechnology      *Tropospheric Ozone and its Impacts on Crop Plants* Supriya Tiwari, Madhoolika Agrawal, 2018-03-07 The research and its outcomes presented here focuses on tropospheric or ground level ozone in particular due to its surfacing as a major threat to crop productivity around the world This book presents the ozone concentration data for a variety of geographical regions examines the factors responsible for its increasing

concentrations and its potential effects on physiological and biochemical responses culminating in crop productivity losses which in turn may pose a serious threat to global food security. Beside this, certain ameliorative measures that could be adopted to assess ozone injury in plants are also discussed. Global climate change scenarios predict a significant increase in future tropospheric ozone concentration. Particular attention is therefore given to evaluate the effect of global climate change on ozone concentrations. Readers will also discover how yield losses due to ozone are related to changes in the socio-economic conditions of the society especially in South Asian regions. Students and researchers studying crop and soil science, environmental scientists, risk assessment professionals and policy makers will find this book of interest.

**A History of Scientific Journals** Aileen Fyfe, Noah Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03. Modern scientific research has changed so much since Isaac Newton's day that it is more professional, collaborative and international, with more complicated equipment and a more diverse community of researchers. Yet the use of scientific journals to report, share and store results is a thread that runs through the history of science from Newton's day to ours. Scientific journals are now central to academic research and careers. Their editorial and peer review processes act as a check on new claims and findings, and researchers build their careers on the list of journal articles they have published. The journal that reported Newton's optical experiments still exists. First published in 1665 and now fully digital, the *Philosophical Transactions* has carried papers by Charles Darwin, Dorothy Hodgkin and Stephen Hawking. It is now one of eleven journals published by the Royal Society of London. Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing. The editorial management, business practices and financial difficulties of the *Philosophical Transactions* and its sibling *Proceedings* reveal the meaning and purpose of journals in a changing scientific community. At a time when we are surrounded by calls to reform the academic publishing system, it has never been more urgent that we understand its history.

**Transition Engineering** Susan Krumdieck, 2019-09-19. *Transition Engineering: Building a Sustainable Future* examines new strategies emerging in response to the mega issues of global climate change, decline in world oil supply, scarcity of key industrial minerals and local environmental constraints. These issues pose challenges for organizations, businesses and communities, and engineers will need to begin developing ideas and projects to implement the transition of engineered systems. This work presents a methodology for shifting away from unsustainable activities. Teaching the *Transition Engineering* approach and methodology is the focus of the text, and the concept is presented in a way that engineers can begin applying it in their work.

**Wetlands Conservation** Sanjeev Sharma, Pardeep Singh, 2021-09-15. *Wetlands Conservation* is an up-to-date overview of approaches for addressing wetlands degradation and its effects on ecosystem services, human health and other ecosystems. Wetlands are essential sources of biodiversity, water purification, groundwater replenishment, flood control, storm protection, sediment retention, recreation and tourism, and more. Human exploitation of natural resources over the past 200 years has caused significant wetlands

degradation and loss Although the Ramsar Convention of 1971 drafted policies for wetland conservation and responsible use many wetland sites remain inadequately conserved or managed Maintaining the ecological balance and equilibrium of wetlands requires a clear understanding of the vital role of wetlands the difficulties they face and the policies enacted for their protection Wetlands Conservation Current Challenges and Future Strategies summarizes both current and emerging management strategies trends and policies regarding wetlands protection around the world The authors provide accurate scientific information on wetlands while discussing the effects of climate change global warming modernization in agriculture and other key topics Designed to assist in the development of future solutions for wetlands conservation and management strategies this important volume Highlights the environmental socioeconomic and cultural importance of wetlands Identifies the factors responsible for the failure of many conservation initiatives Describes the natural and anthropogenic factors of wetlands degradation Discusses the role of community based wetlands conservation and management Explores Ramsar wetlands conservation and its impacts worldwide Wetlands Conservation Current Challenges and Future Strategies is an invaluable resource for graduate and postgraduate students researchers ecologists policymakers conservation organizations and others working in the field of natural resources management

**Changing Climate, Changing Worlds** Meredith Welch-Devine, Anne Sourdri, Brian J. Burke, 2020-04-07 This book explores how individuals and communities perceive and understand climate change using their observations of change in the world around them Because processes of climatic change operate at spatial and temporal scales that differ from those of everyday practice the phenomenon can be difficult to understand However flora and fauna which are important natural and cultural resources for human communities do respond to the pressures of environmental change Humans in turn observe and adapt to those responses even when they may not understand their causes Much of the discussion about human experiences of our changing climate centers on disasters and extreme events but we argue that a focus on the everyday on the microexperiences of change has the advantage of revealing how people see feel and make sense of climate change in their own lives The chapters of this book are drawn from Asia Europe Africa and South and North America They use ethnographic inquiry to understand local knowledge and perceptions of climate change and the social and ecological changes inextricably intertwined with it Together they illustrate the complex process of coming to know climate change show some of the many ways that climate change and our responses to it inflict violence and point to promising avenues for moving toward just and authentic collaborative responses

**Polar Bears on the Edge** Morten Jørgensen, 2015 Do you like polar bears Do you want polar bears to be around in 50 years Do you think that climate change is the only major threat to polar bear survival Do you believe that polar bears are adequately protected today Would you like to contribute to saving polar bears today and in the future If your answer to any of those questions is yes you need to read this book This book is an eye opener and should kick off extensive debates Dr Thor S Larsen professor emeritus Member of the IUCN Polar Bear Specialist Group 1968 1985 In this impassioned book Morten raises very important

provocative questions that are not being addressed by the international environmental groups Art Wolfe Award winning conservation photographer In this book the author analyses the current status of the polar bear And he punctures the myth that polar bears are well protected and managed today While most people think that global warming is the overhanging threat to polar bear survival the author documents that it is actually the continuation of an unsustainable hunting pressure that is driving the species towards extinction Across 228 pages interspersed with beautiful photographs Morten Joergensen demonstrates how there are probably fewer polar bears than most authorities claim how hunting is the greatest manageable threat to the species how current protection measures are insufficient how the animal has been commercialized and how lack of courage and honesty is allowing this scenario to continue The book also contains a long string of realistic and very urgent recommendations for action to save polar bears before they are gone forever *Indigenous Peoples' Governance of Land and Protected Territories in the Arctic* Thora Martina Herrmann, Thibault Martin, 2015-12-22 This book addresses critical questions and analyses key issues regarding Indigenous Aboriginal Peoples and governance of land and protected areas in the Arctic It brings together contributions from scientists indigenous and non indigenous researchers local leaders and members of the policy community that document Indigenous Aboriginal approaches to governance of land and protected areas at the local regional and international level explore new territorial governance models that are emerging as part of the Indigenous Aboriginal governance within Arctic States provinces territories and regions analyse the recognition or lack thereof concerning indigenous rights to self determination in the Arctic and examine how traditional decision making arrangements and practices can be linked with governments in the process of good governance The book highlights essential lessons learned success stories and remaining issues all of which are useful to address issues of Arctic governance of land and protected areas today and which could also be relevant for future governance arrangements **From Insight to Innovation** David P. Billington, Jr., 2020-11-17 The engineering ideas behind key twentieth century technical innovations from great dams and highways to the jet engine the transistor the microchip and the computer Technology is essential to modern life yet few of us are technology literate enough to know much about the engineering that underpins it In this book David P Billington Jr offers accessible accounts of the key twentieth century engineering innovations that brought us into the twenty first century Billington examines a series of engineering advances from Hoover Dam and jet engines to the transistor the microchip the computer and the internet and explains how they came about and how they work Road Vehicle Automation 4 Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation Its chapters have been written by researchers engineers and analysts from all around the globe Topics covered include public sector activities human factors and challenges ethical legal energy and technology perspectives vehicle systems development as well as transportation infrastructure and planning The book is based on the Automated Vehicles Symposium which took place in San Francisco California USA in July 2016 *China's Bilateral*

*Relations with Its Principal Oil Suppliers* George G. Eberling, 2017-10-23 This book examines China's bilateral relations with its established suppliers of crude petroleum and on occasion petroleum gas products including liquefied natural gas LNG based on a five dimensional framework political diplomatic relations economic trade relations military security relations cultural relations and petroleum energy relations A five dimensional approach is comprehensive in nature and offers a complete understanding of China's complex relationships rather than looking solely on more typical perspectives like bilateral trade security relationships or energy ties More often than not social science literature focuses on one or more aspects of China's bilateral relations which does not provide a complete picture of the complex nature of its interstate ties This book endeavors to bridge this gap and look more substantially at China's bilateral relationships with energy petroleum relations being the key aspect linking each one of them The specific bilateral relationships examined are China's relations with Angola Brazil Republic of the Congo Iran Iraq Kazakhstan Kuwait Oman Russia Saudi Arabia South Sudan Sudan United Arab Emirates and Venezuela These countries matter because their crude petroleum and petroleum gas product exports account for over 50 percent of China's annual oil consumption

*Blue Carbon Reservoir of the Blue Planet* Abhijit Mitra, Sufia Zaman, 2014-11-20 The ever increasing emission of carbon dioxide due to rapid industrialization urbanization unplanned tourism and alteration of land use pattern is causing unprecedented changes to marine biodiversity Irrespective of political philosophy nation caste sex and religion mankind is under the appalling shadow of climate change Today nature based approaches for the mitigation of climate change are increasingly accepted as part of the low cost solution Thrust has been given by several scientific communities to assess the magnitude and viability of carbon sequestering potential of plants Coastal producer communities like mangroves salt marsh grass seagrass beds and seaweeds absorb atmospheric carbon dioxide during the process of photosynthesis This carbon known as the blue carbon is thus associated with the marine and estuarine ecosystems However a number of gaps in our scientific knowledge on blue carbon domain still exist Molluscs coral reefs phytoplankton which are amongst the important storehouses of carbon have not been addressed Very few scientific studies on the carbon stored in these valuable natural vaults have been performed and no data bank is available on their carbon sequestering capacity on global basis The methodologies for assessing blue carbon stock also need further standardization so that credit from blue carbon reservoir is accepted by the International bodies in the form of a concrete policy It is a matter of great appreciation that Conservation International CI the International Union for Conservation of Natural Resources IUCN and the Intergovernmental Oceanic Commission IOC of UNESCO is collaborating with governments research institutions non governmental and international organizations and communities around the world to develop management approaches financial incentives and policy mechanisms for ensuring conservation and restoration of blue carbon ecosystems and implement projects around the world that demonstrate the feasibility of blue carbon accounting management and incentive agreements The present book has critically presented the data bank for each community of blue

carbon not merely in the form of text description but also through case studies that are the outcomes of research projects and pilot programmes      The Budget of the United States Government United States. Office of Management and Budget,2015

## **Physical Science 2013 Memorandum** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Physical Science 2013 Memorandum**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Physical Science 2013 Memorandum Introduction**

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