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Physical Science Memorandum 25 September 2014

Shasha Hu



Physical Science Memorandum 25 September 2014:

Freedom's Laboratory Audra J. Wolfe, 2020-08-04 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In Freedom s Laboratory Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups Freedom s Laboratory is the first work to explore science s link to US propaganda and psychological warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States *Speaking Truth to Power* Ginsberg, Benjamin, Paschall, Collin, 2022-09-06 Truth and power have a difficult relationship Decision makers are often required to make judgements that depend upon specialized knowledge and thus reluctantly surrender power They are apt to reject advice inconsistent with their perceived interests experiences and cognitive capacities Speaking Truth to Power aims to guide the reader through the tangled relationship between truth and power manifesting as the interplay between experts and decision makers in society **Budget of the U.S.**

Government, Appendix, 2013-04-10 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies **Free**

Market Environmentalism for the Next Generation T. Anderson, D. Leal, 2015-02-04 This book provides a vision for environmentalism s future based on the success of environmental entrepreneurs around the world The work provides the next generation of environmental market ideas and the chapters are co authored with young scholars and policy analysts who represent the next generation of environmental leaders Applied Studies in Climate Adaptation Jean P. Palutikof, Sarah L. Boulter, Jon Barnett, David Rissik, 2014-10-27 The book advances knowledge about climate change adaptation practices through a series of case studies It presents important evidence about adaptation practices in agriculture businesses the

coastal zone community services disaster management ecosystems indigenous populations and settlements and infrastructure In addition to 38 case studies across these sectors the book contains horizon scoping essays from international experts in adaptation research including Hallie Eakin Susanne Moser Jonathon Overpeck Bill Solecki and Gary Yohe Australia's social ecological systems have a long history of adapting to climate variability and change and in recent decades has been a world leader in implementing and researching adaptation making this book of universal relevance to all those working to adapt our environment and societies to climate change

A Review of the Landscape Conservation Cooperatives

National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Board on Atmospheric Sciences and Climate, Committee on the Evaluation of the Landscape Conservation Cooperatives, 2016-11-28 The United States tradition of conserving fish wildlife habitats and cultural resources dates to the mid 19th century States have long sought to manage fish and wildlife species within their borders whereas many early federal conservation efforts focused on setting aside specific places as parks sanctuaries or reserves With advances in landscape ecology over the past quarter century conservation planners scientists and practitioners began to stress the importance of conservation efforts at the scale of landscapes and seascapes These larger areas were thought to harbor relatively large numbers of species that are likely to maintain population viability and sustain ecological processes and natural disturbance regimes often considered critical factors in conserving biodiversity By focusing conservation efforts at the level of whole ecosystems and landscape practitioners can better attempt to conserve the vast majority of species in a particular ecosystem Successfully addressing the large scale interlinked problems associated with landscape degradation will necessitate a planning process that bridges different scientific disciplines and across sectors as well as an understanding of complexity uncertainty and the local context of conservation work The landscape approach aims to develop shared conservation priorities across jurisdictions and across many resources to create a single collaborative conservation effort that can meet stakeholder needs Conservation of habitats species ecosystem services and cultural resources in the face of multiple stressors requires governance structures that can bridge the geographic and jurisdictional boundaries of the complex socio ecological systems in which landscape level conservation occurs The Landscape Conservation Cooperatives LCC Network was established to complement and add value to the many ongoing state tribal federal and nongovernmental efforts to address the challenge of conserving species habitats ecosystem services and cultural resources in the face of large scale and long term threats including climate change A Review of the Landscape Conservation Cooperatives evaluates the purpose goals and scientific merits of the LCC program within the context of similar programs and whether the program has resulted in measurable improvements in the health of fish wildlife and their habitats

Comparative handbook: robotic technologies law

Alain Bensoussan, Jérémy Bensoussan, 2016-06-28 Studies of the overall impact of robotics on the economy have shown that investments in its various sectors industrial professional and service robotics are increasing globally and the

markets associated with them are valued in billions Robotization improves the competitiveness of enterprises while collaborative robotics reinvents methods of production Beyond the economic outlook service robotics backed by the development of artificial intelligence raises challenging ethical and social issues The legal analysis of robotics is no mean feat because it covers a very diverse technical reality Companies whose businesses are focused on robotic technologies and applications can be confronted with a complex legal situation resulting from the plurality of the applicable rules which have not necessarily been conceived or adopted bearing in mind their specific constraints This situation should not hamper their development It only implies taking cues from the economic legal norms which promote such developments and conducting an analysis of the legal risks which they face given the applicable rules of liability This comparative study carried out by members of the Lexing Network proposes an overview having regard to the legislation of 17 different countries of the legal issues raised by robotics and the way the law in force responds in a more or less satisfactory manner Discover the authors contributors in details under the tab Extraits

Offensive Cyber Operations Daniel Moore, 2022-05-16 Cyber warfare is often discussed but rarely truly seen When does an intrusion turn into an attack and what does that entail How do nations fold offensive cyber operations into their strategies Operations against networks mostly occur to collect intelligence in peacetime Understanding the lifecycle and complexity of targeting adversary networks is key to doing so effectively in conflict Rather than discussing the spectre of cyber war Daniel Moore seeks to observe the spectrum of cyber operations By piecing together operational case studies military strategy and technical analysis he shows that modern cyber operations are neither altogether unique nor entirely novel Offensive cyber operations are the latest incarnation of intangible warfare conflict waged through non physical means such as the information space or the electromagnetic spectrum Not all offensive operations are created equal Some are slow paced clandestine infiltrations requiring discipline and patience for a big payoff others are short lived attacks meant to create temporary tactical disruptions This book first seeks to understand the possibilities before turning to look at some of the most prolific actors the United States Russia China and Iran Each has their own unique take advantages and challenges when attacking networks for effect

Treaties in Force ,2014 **Treaties in Force** United States Department of State - Office of the Legal Adviser, 2014-04-08 Treaties in Force is prepared by the Department of State for the purpose of providing information on treaties and other international agreements to which the United States has become a party and which are carried on the records of the Department of State as being in force as of its stated publication date January 1 2013 With respect to treaties and agreements in force as of January 1 2013 information regarding status is up to date as of the date indicated as authoritative The term treaty as a matter of U S constitutional law denotes international agreements made by the President with the advice and consent of the Senate in accordance with Article II section 2 of the Constitution of the United States In addition to such treaties this publication covers international agreements in force that have been concluded by the Executive a pursuant to or in accordance with existing legislation or a

prior treaty b subject to congressional approval or implementation and or c under and in accordance with the President s constitutional powers Treaties in Force is arranged in two sections Section 1 includes bilateral treaties and other international agreements listed by country or other international entity with subject headings under each entry Arrangements with territorial possessions of a country appear at the end of the entry for that country In some cases treaties and international agreements applicable to a territory prior to its independence are included in the entry for that country on the basis of its assumption of treaty obligations upon becoming independent as noted at the beginning of the entry for that country For convenience some treaties and agreements concluded with countries whose name or statehood status has changed continue to be listed under the name in use at the time the agreement was concluded if the title of the treaty or agreement has not been formally amended Section 2 lists multilateral treaties and other international agreements to which the United States is a party arranged by subject The depositary is the authoritative source for a current list of parties and information on other matters concerning the status of the agreement and status information often changes Information is provided on the depositary for the agreement in question and contact information including an Internet site is provided for the depositary where available

Sea Ice David N. Thomas,2025-08-25 New edition of the leading resource on the Arctic and Southern Oceans with contributions from the world s experts on sea ice Sea Ice delivers insights into the very latest understanding of sea ice dynamics how we measure and model its extent the ecosystems that depend on sea ice and the effect of climate change on its distribution The book also discusses how sea ice influences the oceanography of underlying waters and the influence that sea ice has on the world s climate This newly revised and updated Fourth Edition looks at ice based food webs and the impact on global geopolitics as well as changes in human activity in the Arctic Written by a team of more than 80 of the world s leading experts from 13 countries Sea Ice includes information on Sea ice thickness distribution and snow and surface processes on sea ice The short term and long term dynamics of Arctic versus Antarctic Sea ice Current methods of satellite remote sensing of sea ice The ecology of sea ice from microbes to mammals to marine birds The cycling of contaminants across the ocean sea ice atmosphere interface In its new edition Sea Ice remains the leading multidisciplinary resource on the subject for all policy makers researchers and students with an interest in the polar regions and their role in the world s oceanic systems

#NoFly Shaun Hendy,2019-10-24 By avoiding planes for a year I found that I had cut my carbon dioxide emissions from travel to just over 1 tonne This was a reduction of 95 per cent from my 2017 carbon footprint from travel It felt good What happens when a leading New Zealand scientist and frequent traveller rules out flying for a year From overnight buses to epic train journeys Shaun Hendy s experiences speak to our desire to do something anything in the face of growing climate anxiety NoFly confronts the hard questions of one person s attempt to adapt Was this initiative merely symbolic Did it compromise his work his life And has it left him feeling more optimistic that we can indeed reach a low emissions future

Federal Register ,2013-12 The Pacific War Christina Twomey,Ernest Koh,2014-09-15

The Pacific War is an umbrella term that refers collectively to a disparate set of wars however this book presents a strong case for considering this assemblage of conflicts as a collective singular war. It highlights the genuine thematic commonalities in the legacies of war that cohere across the Asia Pacific and shows how the wars both individually and collectively wrought dramatic change to the geo political makeup of the region. This book discusses the cultural political and social implications of the Pacific War and engages with debates over the war's impact legacies and continuing cultural resonances. Crucially it examines the meanings and significance of the Second World War from a truly international perspective and the contributors present fascinating case studies that highlight the myriad of localised idiosyncrasies in how the Pacific War has been remembered and deployed in political contexts. The chapters trace the shared legacy that the individual wars had on demographics culture and mobility across the Asia Pacific and demonstrate how in the aftermath of the war political borders were transformed and new nation states emerged. The book also considers racial and sexual tensions which accompanied the arrival of both Allied and Axis personnel and their long lasting consequences as well as the impact returning veterans and the war crime trials that followed the conflict had on societies in the region. In doing so it succeeds in illuminating the events and issues that unfolded in the weeks months and indeed decades after the war. This interdisciplinary volume examines the aftermaths and legacies of war for individuals communities and institutions across South Southeast and East Asia Oceania and the Pacific world. As such it will be welcomed by students and scholars of Asian history modern history and cultural history as well as by those interested in issues of memory and commemoration.

Weakly Modular Graphs and Nonpositive Curvature Jérémie Chalopin, Victor Chepoi, Hiroshi Hirai, Damian Osajda, 2021-06-18. This article investigates structural geometrical and topological characterizations and properties of weakly modular graphs and of cell complexes derived from them. The unifying themes of our investigation are various nonpositive curvature and local to global properties and characterizations of weakly modular graphs and their subclasses. Weakly modular graphs have been introduced as a far reaching common generalization of median graphs and more generally of modular and orientable modular graphs. Helly graphs bridged graphs and dual polar graphs occurring under different disguises: 1-skeletons collinearity graphs covering graphs domains etc in several seemingly unrelated fields of mathematics: Metric graph theory Geometric group theory Incidence geometries and buildings Theoretical computer science and combinatorial optimization. We give a local to global characterization of weakly modular graphs and their subclasses in terms of simple connectedness of associated triangle square complexes and specific local combinatorial conditions. In particular we revisit characterizations of dual polar graphs by Cameron and by Brouwer-Cohen. We also show that disk Helly graphs are precisely the clique Helly graphs with simply connected clique complexes. With ℓ_1 -embeddable weakly modular and weakly modular graphs we associate high dimensional cell complexes having several strong topological and geometrical properties: contractibility and the CAT(0) property. Their cells have a specific structure: they are basis polyhedra of even matroids in the first

case and orthoscheme complexes of gated dual polar subgraphs in the second case We resolve some open problems concerning subclasses of weakly modular graphs we prove a Brady McCammond conjecture about CAT 0 metric on the orthoscheme *Scientific and Technical Aerospace Reports* ,1967 *Property Rights in Outer Space* Matthew Johnson,2024-05-28 This book explores the role of private mining rights in the utopian imaginary of space colonisation It presents a transdisciplinary account of the new and evolving legislative frameworks that have been established in anticipation of commercial exploitation of the mineral resources of the off world frontier Written in an engaging style the book investigates a novel case study in the history of capitalism and the commons the emergence of a nascent space mining industry undergirded by a contentious legislative framework In 2015 the US passed laws that would recognise the claims of US corporations to own and sell space resources This unilateral act of pre emptive law making would appear to contravene the terms of the UN Outer Space Treaty 1967 which declared that the exploration and use of outer space should be for the benefit of all mankind and not subject to national appropriation Using this central dynamic between privately held mining rights and outer space as a global commons Matthew Johnson constructs an historical sociology of space mining from the deep historical roots of common and private property to the contemporary networks of neoliberalism that have engaged with the commercialisation of space activity The anticipatory expansion of private property claims beyond the Earth both resonates with and problematises the terrain of political history such as the tensions between states and markets public law and private power the commons and exclusive property The emerging cosmopolitics of off world private property mirrors and is often explicitly embedded within neoliberal geopolitics prompting urgent questions about how we can reaffirm principles of democracy and common heritage in the international laws of Earth and space This book is compelling reading for anyone interested in the social study of space law economics technology politics and property rights *Science of Food Nutrition and Health* Vinod Puri,2023-07-21 Diet is one of the important facets of comprehensive approach to good health along with physical social emotional and intellectual well being During the second half of the 20th century we witnessed a dramatic change in our eating patterns and lifestyle aided by agricultural and industrial revolution globalisation and urbanisation and emergence of associated diet related chronic diseases such as obesity coronary heart disease hypertension diabetes some type of cancer stroke and degenerative arthritis The science of food and nutrition is very complex Nutrition science like many other fields of science is evolutionary and there are always conflicting research outcomes that need to be carefully evaluated We ingest hundreds of dietary components every day and understanding various metabolic pathways and the effect of interactions of various dietary components in vivo is rather challenging Recent advances in genetic research fostered the emergence of new disciplines such as nutrigenomics proteomics metabolomics and transcriptomics which can shed light on the molecular level interaction between dietary nutrients and the genome These technologies provide the vision for future nutrition research that may unravel how the diet genome interactions modifies the phenotype Food may not be the overall

cure for the treatment of every possible disease but the importance of food in both causing and relieving certain problems cannot be neglected This is one of the most researched topics and there is a lot written about it However this book is probably the only text that provides up to date information on the various interrelated topics on food and nutrition that would be of interest to wider community

Biofuels for Aviation Christopher Chuck, 2016-06-02 Biofuels for Aviation Feedstocks Technology and Implementation presents the issues surrounding the research and use of biofuels for aviation such as policy markets certification and performance requirements life cycle assessment and the economic and technical barriers to their full implementation Readers involved in bioenergy and aviation sectors research planning or policy making activities will benefit from this thorough overview The aviation industry's commitment to reducing GHG emissions along with increasing oil prices have sparked the need for renewable and affordable energy sources tailored to this sector's very specific needs As jet engines cannot be readily electrified turning to biofuels is the most viable option However aviation is a type of transportation for which traditional biofuels such as bioethanol and biodiesel do not fulfill key fuel requirements Therefore different solutions to this situation are being researched and tested around the globe which makes navigating this scenario particularly challenging This book guides readers through this intricate subject bringing them up to speed with its current status and future prospects both from the academic and the industry point of view Science and technology chapters delve into the technical aspects of the currently tested and the most promising technology in development as well as their respective feedstocks and the use of additives as a way of adapting them to meet certain specifications Conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch are explored and their results are assessed for current and future viability Presents the current status of biofuels for the aviation sector including technologies that are currently in use and the most promising future technologies their production processes and viability Explains the requirements for certification and performance of aviation fuels and how that can be achieved by biofuels Explores the economic and policy issues as well as life cycle assessment a comparative techno economic analysis of promising technologies and a roadmap to the future Explores conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch

How Data Happened Chris Wiggins, Matthew L. Jones, 2023-03-21 Fascinating Jill Lepore The New Yorker A sweeping history of data and its technical political and ethical impact on our world From facial recognition capable of checking people into flights or identifying undocumented residents to automated decision systems that inform who gets loans and who receives bail each of us moves through a world determined by data empowered algorithms But these technologies didn't just appear they are part of a history that goes back centuries from the census enshrined in the US Constitution to the birth of eugenics in Victorian Britain to the development of Google search Expanding on the popular course they created at Columbia University Chris Wiggins and Matthew L Jones illuminate the ways in which data has long been used as a tool and a weapon in arguing for what is true as well as a means of

rearranging or defending power They explore how data was created and curated as well as how new mathematical and computational techniques developed to contend with that data serve to shape people ideas society military operations and economies Although technology and mathematics are at its heart the story of data ultimately concerns an unstable game among states corporations and people How were new technical and scientific capabilities developed who supported advanced or funded these capabilities or transitions and how did they change who could do what from what and to whom Wiggins and Jones focus on these questions as they trace data s historical arc and look to the future By understanding the trajectory of data where it has been and where it might yet go Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose with intentionality and purpose

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