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## **MEMORANDUM**

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# Memodandum September Paper 1 2014 Physical Science

**Battelle Memorial Institute. Radiation  
Effects Information Center**

## **Memodandum September Paper 1 2014 Physical Science:**

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

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 festering 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 *REIC Memorandum* Battelle Memorial Institute. Radiation Effects Information Center,1961

**Spacecraft Dynamics and Control** Enrico Canuto, Carlo Novara, Donato Carlucci, Carlos Perez-Montenegro, Luca Massotti, 2018-03-08 Spacecraft Dynamics and Control The Embedded Model Control Approach provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model based control using state space equations as the key paradigm for simulation design and implementation The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment The model is compelled to include disturbance dynamics as a repository of the uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class The source of the real time uncertainty estimation prediction is the model error signal as it encodes the residual discrepancies between spacecraft measurements and model output The embedded model and the uncertainty estimation feedback noise estimator in the book constitute the state predictor feeding the control law Asymptotic pole placement exploiting the asymptotes of closed loop transfer functions is the way to design and tune feedback loops around the embedded model state predictor control law reference generator The design versus the uncertainty class is driven by analytic stability and performance inequalities The method is applied to several attitude and orbit control problems The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes state space dynamics and Embedded Model Control Fundamentals of orbit attitude and environment dynamics are treated giving emphasis to state space formulation disturbance dynamics state feedback and prediction closed loop stability Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors Numerical tables are included and their data employed for numerical simulations Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations The suite of the attitude control modes of a GOCE like mission is designed and simulated around the so called mission state predictor Solved and unsolved exercises are included within the text and not separated at the end of chapters for better understanding training and application Simulated results and their graphical plots are developed through MATLAB Simulink code

**Beyond Control** James F. Barnett Jr., 2017-03-16 Beyond Control reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country s largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan

City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi s move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River s impending diversion the book s chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century

*Vaccinating Britain* Gareth Millward,2019-01-29 This electronic version has been made available under a Creative Commons BY NC ND open access license This book is available as an open access ebook under a CC BY NC ND licence *Vaccinating Britain* shows how the British public has played a central role in the development of vaccination policy since the Second World War It explores the relationship between the public and public health through five key vaccines diphtheria smallpox poliomyelitis whooping cough and measles mumps rubella MMR It reveals that while the British public has embraced vaccination as a safe effective and cost efficient form of preventative medicine demand for vaccination and trust in the authorities that provide it has ebbed and flowed according to historical circumstances It is the first book to offer a long term perspective on vaccination across different vaccine types This history provides context for students and researchers interested in present day controversies surrounding public health immunisation programmes Historians of the post war British welfare state will find valuable insight into changing public attitudes towards institutions of government and vice versa

*Geologic Fundamentals of Geothermal Energy* David R. Boden,2016-09-19 Geothermal energy stands out because it can be used as a baseload resource This book unlike others examines the geology related to geothermal applications Geology dictates a how geothermal resources can be found b the nature of the geothermal resource such as liquid or vapor dominated and c how the resource might be developed ultimately such as flash or binary geothermal plants The compilation and distillation of geological elements of geothermal systems into a single reference fills a notable gap

*The Terrorism Trap* Harrison Akins,2023-06-20 After two decades and trillions of dollars the United States fight against terrorism has achieved mixed results Despite the vast resources and attention expended since 9 11 terrorism has increased in many societies that have been caught up in the war on terror Why have U S policies been unable to stem the tide of violence Harrison Akins reveals how the war on terror has had the unintended consequence of increasing domestic terrorism in U S partner states He examines the results of U S backed counterterrorism operations that targeted al Qaeda in peripheral regions of partner states over which their central

governments held little control. These operations often provoked a violent backlash from local terrorist groups leading to a spike in retaliatory attacks against partner states. Senior U.S. officials frequently failed to grasp the implications of the historical conflict between central governments and the targeted peripheries. Instead they exerted greater pressure on partner states to expand their counterterrorism efforts. This exacerbated the underlying conditions that drove the escalating attacks trapping these governments in a deadly cycle of tit for tat violence with local terrorist groups. This process Akins demonstrates accounts for the lion's share of the al Qaeda network's global terrorist activity since 2001. Drawing on extensive primary sources including newly declassified documents dozens of in depth interviews with leading government officials in the United States and abroad and statistical analysis *The Terrorism Trap* is a groundbreaking analysis of why counterterrorism has backfired.

[The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency](#) William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09. The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history. By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time. *The DARPA Model* provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation. Dr Kent Hughes Woodrow Wilson International Center for Scholars. This volume contains a remarkable collection of extremely insightful articles on the world's most successful advanced technology agency. Drafted by the leading US experts on DARPA it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume. It reviews DARPA's unique role in the U.S. innovation system as well as the challenges DARPA and its clones face today. As the American model is being considered for adoption by a number of countries worldwide this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation. Prof Charles Wessner Georgetown University. The U.S. Defense Advanced Research Projects Agency DARPA has played a remarkable role in the creation new transformative technologies revolutionizing defense with drones and precision guided munitions and transforming civilian life with portable GPS receivers voice recognition software self driving cars unmanned aerial vehicles and most famously the ARPANET and its successor the Internet. Other parts of the U.S. Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies. But how and why has DARPA succeeded? Which features of its operation and environment contribute to this success? And what lessons does its experience offer for other U.S. agencies and other governments that want to develop and demonstrate their own transformative technologies? This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency's founding in the wake of Sputnik to the current attempts to adapt it to use by other federal

agencies Informative and insightful this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others

**Technological Innovation in Legacy Sectors** William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don t head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S s still strong research oriented innovation system

**The Oxford Handbook of Musical Repatriation** Frank Gunderson, Robert C. Lancefield, Bret Woods, 2019-09-09 The Oxford Handbook of Musical Repatriation is a significant edited volume that critically explores issues surrounding musical repatriation chiefly of recordings from audiovisual archives The Handbook provides a dynamic and richly layered collection of stories and critical questions for anyone engaged or interested in repatriation or archival work Repatriation often is overtly guided by an ethical mandate to return something to where it belongs by such means as working to provide reconnection and Indigenous control and access to cultural materials Essential as these mandates can be this remarkable volume reveals dimensions to repatriation beyond those which can be understood as simple acts of giving back or returning

an archive to its homeland Musical repatriation can entail subjective negotiations involving living subjects intangible elements of cultural heritage and complex histories situated in intersecting webs of power relations and manifold other contexts The forty eight expert authors of this book s thirty eight chapters engage with multifaceted aspects of musical repatriation situating it as a concept encompassing widely ranging modes of cultural work that can be both profoundly interdisciplinary and embedded at the core of ethnographic and historical scholarship These authors explore a rich variety of these processes many streams making the volume a compelling space for critical analysis of musical repatriation and its wider significance The Handbook presents these chapters in a way that offers numerous emergent perspectives depending on one s chosen trajectory through the volume From retracing the paths of archived collections to exploring memory performance research goals institutional power curation preservation pedagogy and method media and transmission digital rights and access policy and privilege intellectual property ideology and the evolving institutional norms that have marked the preservation and ownership of musical archives The Oxford Handbook of Musical Repatriation addresses these key topics and more in a deep richly detailed and diverse exploration

Early Childhood Studies Jane Johnston,Lindy Nahmad-Williams,Ruby Oates,Val Wood,2018-02-16 This fully updated new edition offers a comprehensive accessible yet rigorous introduction to the study of Early Childhood that will will add value to any Early Childhood Studies course at both foundation and degree level Addressing both care and education in the Early Years the book considers a range of multi disciplinary aspects of Early Childhood including health social educational psychological and sociological perspectives Early Childhood Studies engages the reader by providing real world examples that underpin theoretical perspectives and bring examples to life while encouraging practitioners to engage in reflective practice by considering their own similar experiences Key features include Engaging activities and case studies that bring theory to life Cutting edge research Practical tasks and advice with points for further reading End of chapter summaries Reflective Tasks and Study Skills boxes in each chapter Full colour illustrations throughout This core introductory textbook is an indispensable resource for Early Years students and professionals whatever their level of expertise or experience

**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

**Teaching at Its Best** Linda B. Nilson,2016-07-18 The classic teaching toolbox updated with new research and ideas Teaching at Its Best is the bestselling research based toolbox for college instructors at any level in any higher education setting Packed with practical guidance proven techniques and expert perspectives this book helps instructors improve student learning both face to face and online This new fourth edition features five new chapters on building critical thinking into course design creating a welcoming classroom environment helping students learn how to learn giving and receiving feedback and teaching in multiple modes along with the latest research and new questions to facilitate faculty discussion Topics include new coverage of the flipped classroom cutting edge technologies self regulated learning the mental processes involved in learning and memory and more in the accessible format and easy to understand style that has made this book a much valued resource among college faculty Good instructors are always looking for ways to improve student learning With college classrooms becoming increasingly varied by age ability and experience the need for fresh ideas and techniques has never been greater This book provides a wealth of research backed practices that apply across the board Teach students practical real world problem solving Interpret student ratings accurately Boost motivation and help students understand how they learn Explore alternative techniques formats activities and exercises Given the ever growing body of research on student learning faculty now have many more choices of effective teaching strategies than they used to have along with many more ways to achieve excellence in the classroom Teaching at Its Best is an invaluable toolbox for refreshing your approach and providing the exceptional education your students deserve

**Federal Register** ,2013-12 **Beneath the Night** Stuart Clark,2020-09-29 From stone age to space age every human who has looked up at the night sky has seen the same stars in the same patterns They reveal our entire history as well as hinting at our ultimate fate In Beneath the Night Stuart Clark tells the full story of this relationship From prehistoric cave art and Ancient Egyptian zodiacs to the modern era of satellites and space exploration

Clark reveals the history of a fascination that has shaped our scientific understanding helped us navigate the terrestrial world provided inspiration for our poets artists and philosophers and given us a place to project our hopes and fears This is the story of the universe and our place within it [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 [Half-Life](#) Frank Close, 2015-02-03 It was at the height of the Cold War in the summer of 1950 when Bruno Pontecorvo mysteriously vanished behind the Iron Curtain Who was he and what caused him to disappear Was he simply a physicist or also a spy and communist radical A protege of Enrico Fermi Pontecorvo was one of the most promising nuclear physicists in the world He spent years hunting for the Higgs boson of his day the neutrino a nearly massless particle thought to be essential to the process of particle decay His work on the Manhattan Project helped to usher in the nuclear age and confirmed his reputation as a brilliant physicist Why then would he disappear as he stood on the cusp of true greatness perhaps even the Nobel Prize In Half Life physicist and historian Frank Close offers a heretofore untold history of Pontecorvo s life based on unprecedented access to Pontecorvo s friends and family and the Russian scientists with whom he would later work Close takes a microscope to Pontecorvo s life combining a thorough biography of one of the most important scientists of the twentieth century with the drama of Cold War espionage With all the elements of a Cold War thriller classified atomic research an infamous double agent a possible kidnapping by Soviet operatives Half Life is a history of nuclear physics at perhaps its most powerful when it created the bomb Physics at perhaps its most powerful when it created the bomb [Overcoming Barriers to Deployment of Plug-in Electric Vehicles](#) National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Overcoming Barriers to Electric-Vehicle Deployment, 2015-06-26 In the past few years interest in plug in electric vehicles PEVs has grown Advances in battery and other technologies new federal standards for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration s goal of putting millions of alternative fuel vehicles on the road have all

highlighted PEVs as a transportation alternative Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs smoother operation and better acceleration the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery There are however barriers to PEV deployment including the vehicle cost the short all electric driving range the long battery charging time uncertainties about battery life the few choices of vehicle models and the need for a charging infrastructure to support PEVs What should industry do to improve the performance of PEVs and make them more attractive to consumers At the request of Congress *Overcoming Barriers to Deployment of Plug in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers This report examines the characteristics and capabilities of electric vehicle technologies such as cost performance range safety and durability and assesses how these factors might create barriers to widespread deployment *Overcoming Barriers to Deployment of Plug in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers Through consideration of consumer behaviors tax incentives business models incentive programs and infrastructure needs this book studies the state of the industry and makes recommendations to further its development and acceptance

**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  $\ell_1$  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

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