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Physical Sciences November 2014 Memorandum

**National Academies of Sciences,
Engineering, and Medicine, Division on
Engineering and Physical
Sciences, Intelligence Community
Studies Board, Air Force Studies
Board, Committee on a Strategy for
Acquiring Secure and Reliable
Electronic Components for Air Force
Weapon Systems**

Physical Sciences November 2014 Memorandum:

Historical Guide to NASA and the Space Program Ann Beardsley, C. Tony Garcia, Joseph Sweeney, 2016-09-09 NASA the National Aeronautics and Space Administration created in the wake of the Space Act has and continues to accomplish those precepts every day With many hundreds of satellites launched into space and close to 200 human spaceflights NASA is a proven leader in space exploration Most of the US space exploration efforts have been led by NASA including the Apollo moon landing missions the Skylab space station and later the Space Shuttle Currently NASA is supporting the International Space Station and is overseeing the development of the Orion Multi Purpose Crew Vehicle the Space Launch System and Commercial Crew vehicles NASA is also responsible for the Launch Services Program which provides oversight of launch operations and countdown management for unmanned NASA launches The Historical Guide to NASA and the Space Program contains a chronology an introduction appendixes and an extensive bibliography The dictionary section has over 500 cross referenced entries on space missions astronauts technical terms space shuttles satellites and the international space station This book is an excellent access point for students researchers and anyone wanting to know more about NASA and space exploration

Force Multiplying Technologies for Logistics Support to Military Operations National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15 The mission of the United States Army is to fight and win our nation's wars by providing prompt sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged Logistics provides the backbone for Army combat operations Without fuel ammunition rations and other supplies the Army would grind to a halt The U S military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies While aircraft can move large amounts of supplies the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield As the wars in Afghanistan and Iraq have shown the costs of conveying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases the challenge of logistics grows even larger No matter how the nature of battle develops logistics will remain a key factor Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need make maintenance more efficient improve inter and intratheater mobility and improve near real time in transit visibility Force Multiplying Technologies also explores options for the Army to operate with the other services and improve

its support of Special Operations Forces This report provides a logistics centric research and development investment strategy and illustrative examples of how improved logistics could look in the future

Crime, Violence, and Global Warming John Crank,Linda Jacoby,2015-05-20 Crime Violence and Global Warming introduces the many connections between climate change and criminal activity Conflict over natural resources can escalate to state and non state actors resulting in wars asymmetrical warfare and terrorism Crank and Jacoby apply criminological theory to each aspect of this complicated web helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime Beginning with an overview of the science of global warming the authors move on to the links between climate change scarce resources and crime Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet s future

Owning the Technical Baseline for Acquisition Programs in the U.S. Air Force National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Air Force Studies Board,Committee on Owning the Technical Baseline for Acquisition Programs in the U.S. Air Force: A Study,2016-11-25 While there are examples of successful weapon systems acquisition programs within the U S Air Force USAF many of the programs are still incurring cost growth schedule delays and performance problems The USAF now faces serious challenges in acquiring and maintaining its weapons systems as it strives to maintain its current programs add new capabilities to counter evolving threats and reduce its overall program expenditures Owning the technical baseline is a critical component of the Air Force s ability to regain and maintain acquisition excellence Owning the technical baseline allows the government acquisition team to manage and respond knowledgeably and effectively to systems development operations and execution thereby avoiding technical and other programmatic barriers to mission success Additionally owning the technical baseline ensures that government personnel understand the user requirements why a particular design and its various features have been selected over competing designs and what the options are to pursue alternative paths to the final product given unanticipated cost schedule and performance challenges Owning the Technical Baseline for Acquisition Programs in the U S Air Force discusses the strategic value to the Air Force of owning the technical baseline and the risk of not owning it and highlights key aspects of how agencies other than the Air Force own the technical baseline for their acquisition programs This report identifies specific barriers to owning the technical baseline for the Air Force and makes recommendations to help guide the Air Force in overcoming those barriers

Quantum Legacies David Kaiser,2020-03-25 A series of engaging essays that explore iconic moments of discovery and debate in physicists ongoing quest to understand the quantum world The ideas at the root of quantum theory remain stubbornly famously bizarre a solid world reduced to puffs of

probability particles that tunnel through walls cats suspended in zombielike states neither alive nor dead and twinned particles that share entangled fates For more than a century physicists have grappled with these conceptual uncertainties while enmeshed in the larger uncertainties of the social and political worlds around them a time pocked by the rise of fascism cataclysmic world wars and a new nuclear age In *Quantum Legacies* David Kaiser introduces readers to iconic episodes in physicists still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schrödinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher's limited view In *Quantum Legacies* Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he illuminates the deep ties between scientific exploration and the human condition

Space Studies Board Annual Report 2014 National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2015-04-10 The original charter of the Space Science Board was established in June 1958 3 months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of Defense as well as to Congress Space Studies Board Annual Report 2014 covers a message from the chair of the SSB David N Spergel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB's collaboration with other National Research Council units assures the quality of the SSB reports acknowledges the audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers and researchers

Plant Defense Mechanisms Josphert N. Kimatu, 2022-06-28 Recent human migrations technological advances agricultural activities and climate change induced phenomenon have forced plants to increasingly adapt to new environments This book highlights current morphological anatomical physiological molecular and genomic advances in plant defense mechanisms These advances including epigenetic mechanisms have been linked to observed phenotypic plant plasticity Researchers have found intriguing plant interactions and novel mechanisms which have increased our understanding of how sessile plants adapt to and thrive in challenging

environments The studies in this book consider the resilience and sustainability of plant genomes and epigenomes and the role they will play in the next generation of food systems

Social Science and National Security Policy

Janeen M. Klinger, 2019-02-07 This book examines how deterrence coercion and modernization theory has informed U S policy addressing why former Defense Secretary Robert McNamara s famous description of the Vietnam War as the social scientist s war is so accurate By tracing the evolution of ties between social scientists and the government beginning in World War I and continuing through the Second World War and the early Cold War the narrative highlights the role of institutions like the RAND Corporation the Social Science Research Council and MIT s Center for International Studies that facilitate these ties while providing a home for the development of theory The author compares and contrasts the ideas of Bernard Brodie Herman Kahn Albert Wohlstetter Thomas Schelling Gabriel Almond Lucian Pye and Walt Rostow among others and offers a cautionary tale concerning the difficulties and problems encountered when applying social science theory to national security policy

The Power of Change National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Policy and Global Affairs, Board on Energy and Environmental Systems, Board on Science, Technology, and Economic Policy, Committee on Determinants of Market Adoption of Advanced Energy Efficiency and Clean Energy Technologies, 2016-09-30 Electricity supplied reliably and affordably is foundational to the U S economy and is utterly indispensable to modern society However emissions resulting from many forms of electricity generation create environmental risks that could have significant negative economic security and human health consequences Large scale installation of cleaner power generation has been generally hampered because greener technologies are more expensive than the technologies that currently produce most of our power Rather than trade affordability and reliability for low emissions is there a way to balance all three The Power of Change Innovation for Development and Deployment of Increasingly Clean Energy Technologies considers how to speed up innovations that would dramatically improve the performance and lower the cost of currently available technologies while also developing new advanced cleaner energy technologies According to this report there is an opportunity for the United States to continue to lead in the pursuit of increasingly clean more efficient electricity through innovation in advanced technologies The Power of Change Innovation for Development and Deployment of Increasingly Clean Energy Technologies makes the case that America s advantages world class universities and national laboratories a vibrant private sector and innovative states cities and regions that are free to experiment with a variety of public policy approaches position the United States to create and lead a new clean energy revolution This study focuses on five paths to accelerate the market adoption of increasing clean energy and efficiency technologies 1 expanding the portfolio of cleaner energy technology options 2 leveraging the advantages of energy efficiency 3 facilitating the development of increasing clean technologies including renewables nuclear and cleaner fossil 4 improving the existing technologies systems and infrastructure and 5 leveling the playing field for cleaner energy technologies The Power of Change Innovation for

Development and Deployment of Increasingly Clean Energy Technologies is a call for leadership to transform the United States energy sector in order to both mitigate the risks of greenhouse gas and other pollutants and to spur future economic growth. This study's focus on science technology and economic policy makes it a valuable resource to guide support that produces innovation to meet energy challenges now and for the future.

Semiconductor TeraHertz Technology Guillermo Carpintero, Enrique Garcia-Munoz, Hans Hartnagel, Sascha Preu, Antti Raisanen, 2015-07-14 Key advances in Semiconductor Terahertz THz Technology now promises important new applications enabling scientists and engineers to overcome the challenges of accessing the so called terahertz gap. This pioneering reference explains the fundamental methods and surveys innovative techniques in the generation detection and processing of THz waves with solid state devices as well as illustrating their potential applications in security and telecommunications among other fields. With contributions from leading experts Semiconductor Terahertz Technology Devices and Systems at Room Temperature Operation comprehensively and systematically covers semiconductor based room temperature operating sources such as photomixers THz antennas radiation concepts and THz propagation as well as room temperature operating THz detectors. The second part of the book focuses on applications such as the latest photonic and electronic THz systems as well as emerging THz technologies including whispering gallery resonators liquid crystals metamaterials and graphene based devices. This book will provide support for practicing researchers and professionals and will be an indispensable reference to graduate students in the field of THz technology. Key features Includes crucial theoretical background sections to photomixers photoconductive switches and electronic THz generation detection Provides an extensive overview of semiconductor based THz sources and applications Discusses vital technologies for affordable THz applications Supports teaching and studying increasingly popular courses on semiconductor THz technology

Professional Journal of the United States Army, 2015 Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel. Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD. P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges. P R must also address larger scale questions such as how the current realignment of

forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges National Research Council, Division on Engineering and Physical Sciences, Laboratory Assessments Board, Committee on Assessment of the Governance Structure of the NNSA National Security Laboratories, 2015-03-13

Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges is an independent assessment regarding the transition of the National Nuclear Security Administration NNSA laboratories Los Alamos National Laboratory Lawrence Livermore National Laboratory and Sandia National Laboratories to multiagency federally funded research and development centers with direct sustainment and sponsorship by multiple national security agencies This report makes recommendations for the governance of NNSA laboratories to better align with the evolving national security landscape and the laboratories increasing engagement with the other national security agencies while simultaneously encouraging the best technical solutions to national problems from the entire range of national security establishments According to this report the Department of Energy should remain the sole sponsor of the NNSA laboratories as federally funded research and development centers The NNSA laboratories will remain a critically important resource to meet U S national security needs for many decades to come The recommendations of *Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges* will improve the governance of the laboratories and strengthen their strategic relationship with the non DOE national security agencies

Open Science by Design National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Research Data and Information, Committee on Toward an Open Science Enterprise, 2018-08-09

Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space using the technologies of that era to generate reliable knowledge more quickly and efficiently Harnessing today's stunning ongoing advances in information technologies the global research enterprise and its stakeholders are moving toward a new open science ecosystem Open science aims to ensure the free availability and usability of scholarly publications the data that result from scholarly research and the methodologies including code or algorithms that were used to generate those data Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise This report explores specific

examples of open science and discusses a range of challenges focusing on stakeholder perspectives It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps *The Growing Threat to Air Force Mission-Critical Electronics* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Air Force Studies Board, Committee on a Strategy for Acquiring Secure and Reliable Electronic Components for Air Force Weapon Systems, 2019-07-09 High performance electronics are key to the U S Air Force s USAF s ability to deliver lethal effects at the time and location of their choosing Additionally these electronic systems must be able to withstand not only the rigors of the battlefield but be able to perform the needed mission while under cyber and electronic warfare EW attack This requires a high degree of assurance that they are both physically reliable and resistant to adversary actions throughout their life cycle from design to sustainment In 2016 the National Academies of Sciences Engineering and Medicine convened a workshop titled Optimizing the Air Force Acquisition Strategy of Secure and Reliable Electronic Components and released a summary of the workshop This publication serves as a follow on to provide recommendations to the USAF acquisition community

Treaties in Force ,2016 **Military Review** ,2015 **Triennial Review of the National Nanotechnology Initiative** National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II, 2013-12-20 The National Nanotechnology Initiative NNI is a multiagency multidisciplinary federal initiative comprising a collection of research programs and other activities funded by the participating agencies and linked by the vision of a future in which the ability to understand and control matter at the nanoscale leads to a revolution in technology and industry that benefits society As first stated in the 2004 NNI strategic plan the participating agencies intend to make progress in realizing that vision by working toward four goals Planning coordination and management of the NNI are carried out by the interagency Nanoscale Science Engineering and Technology NSET Subcommittee of the National Science and Technology Council NSTC Committee on Technology CoT with support from the National Nanotechnology Coordination Office NNCO Triennial Review of the National Nanotechnology Initiative is the latest National Research Council review of the NNI an assessment called for by the 21st Century Nanotechnology Research and Development Act of 2003 The overall objective of the review is to make recommendations to the NSET Subcommittee and the NNCO that will improve the NNI s value for basic and applied research and for development of applications in nanotechnology that will provide economic societal and national security benefits to the United States In its assessment the committee found it important to understand in some detail and to describe in its report the NNI s structure and organization how the NNI fits within the larger federal research enterprise as well as how it can and should be organized for management purposes and the initiative s various stakeholders and their roles with respect to research Because technology transfer one of the four NNI goals is dependent on management and coordination the

committee chose to address the topic of technology transfer last following its discussion of definitions of success and metrics for assessing progress toward achieving the four goals and management and coordination Addressing its tasks in this order would the committee hoped better reflect the logic of its approach to review of the NNI Triennial Review of the National Nanotechnology Initiative also provides concluding remarks in the last chapter

Treaties In Force: A List Of Treaties and Other International Agreements of the United States in Force on January 1, 2016 State Dept., Office of the Legal Adviser, Treaty Affairs Staff, 2017-02-02

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 2016

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

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Particle Dynamics with Aggregation and Fragmentation Culbert B. Laney, 2025-04-16

Particle dynamics with aggregation and fragmentation occurs in almost every branch of science and engineering Examples include the formation of stars and planets in astrophysics the formation of colloids and polymers in chemistry the formation of raindrops and snowflakes in meteorology the formation of fuel sprays in mechanical engineering impact damage to aircraft and satellites in aerospace engineering and drilling and blasting in civil and mining engineering This is one of the first textbooks to give particle dynamics with aggregation and fragmentation a full treatment putting it on an equal footing with fluid dynamics and solid mechanics To help readers understand the connections to fluid dynamics this book shows how particle dynamics occurs in ideal gases granular gases and fluid turbulence Instead of relying on empirical results that apply only under specific circumstances the book uses broad physical principles such as conservation of mass momentum and energy The text draws on rigorous mathematical theory and modern high performance computing while avoiding the complex details The book also

provides extensive references for those readers who need them While intended for a graduate level audience the book is written in a graphically rich style which will be accessible to advanced undergraduates In particular it includes over 100 figures and over 200 examples most of which are placed into grey boxes to avoid interrupting the main text While surveying the relevant research literature this book also draws on the author s unique insights into particle aggregation and fragmentation gained from participating in relevant research and development activities in industry and academia for over 25 years

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