



basic education

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MEMORANDUM

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Physical Science Pnovember 2014 Memo

Liyong Dong



Physical Science PNovember 2014 Memo:

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 **Professional Journal of the United States Army** ,2015 **Military Review** ,2015 *Semiconductor TeraHertz Technology* Guillermo Carpintero,Enrique Garcia-Munoz,Hans Hartnagel,Sascha Preu,Antti Raisanen,2015-09-28 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 **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

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 a roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

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, 2014-01-20 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

A Homology Theory for Smale Spaces Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basics sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen s result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger s dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s

The War Report Annyssa Bellal, 2015-12-10 This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of

warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field

Solid State Insurrection Joseph D. Martin, 2018-09-07 Solid state physics the study of the physical properties of solid matter was the most populous subfield of Cold War American physics Despite prolific contributions to consumer and medical technology such as the transistor and magnetic resonance imaging it garnered less professional prestige and public attention than nuclear and particle physics Solid State Insurrection argues that solid state physics was essential to securing the vast social political and financial capital Cold War physics enjoyed in the twentieth century Solid state's technological bent and its challenge to the pure science ideal many physicists cherished helped physics as a whole respond more readily to Cold War social political and economic pressures Its research kept physics economically and technologically relevant sustaining its cultural standing and policy influence long after the sheen of the Manhattan Project had faded With this book Joseph D Martin brings a new perspective to some of the most enduring questions about the role of physics in American history

Extreme Weather Events and Human Health Rais Akhtar, 2019-11-15 This edited book assesses the impacts of various extreme weather events on human health and development from a global perspective and includes several case studies in various geographical regions around the globe Covering all continents it describes the impact of extreme weather conditions such as flash floods heatwaves cold waves droughts forest fires strong winds and storms in both developing and developed countries The contributing authors also investigate the spread of diseases and the risk to food security caused by drought and flooding Further the book discusses the economic damage resulting from natural disasters including hurricanes It has been estimated that in 2017 natural disasters and climate change resulted in economic losses of 309 billion US dollars Scientists also predict that if nothing is done to curb the effects of climate change in Europe the death toll due to weather disasters could rise 50 fold by the end of the 21st century with extreme heat alone causing more than 150 000 deaths a year as the report on global warming of 1.5 C warns that China Russia and Canada's current climate policies would steer the world above a catastrophic 5 C of warming by the end of 2100 As such the book highlights how the wellbeing of different populations is threatened by extreme events now and in the foreseeable future

Service Level Management in Emerging Environments, 2021-03-11 Networks are now embedded in daily life thanks to smaller faster inexpensive components that are more powerful and increasingly connected Parallel to this quantitative explosion of communication networks technology has become more complex This development comes with challenges related to management and control and it has become necessary to manage the service level demands of the client to which the service provider commits Different approaches to managing one or more service level components in different emerging environments are explored

such as the Internet of Things the Cloud smart grids e health mesh networking D2D Device to Device smart cities and even green networking This book therefore allows for a better understanding of the important challenges and issues relating to Quality of Service QoS management security and mobility in these types of environment Essentials of Consumer Behavior Debra L. Stephens,2016-10-26 Essentials of Consumer Behavior offers an alternative to traditional textbooks for graduate students Shorter than competing books but no less rigorous it includes unique material on vulnerable consumers and ethics Balancing a strong academic foundation with a practical approach Stephens emphasizes that consumer behavior does not simply equate to buyer behavior She examines the thoughts feelings and behaviors that shape consumers attitudes and motivations in relation to brands products and marketing messages Providing a concise guide to the discipline the author covers key themes such as vulnerable consumers new technologies and collaborative consumption The book is supported by a rich companion website offering links to videos and podcasts surveys quizzes further readings and more It will be a valuable text for any graduate student of consumer behavior or marketing as well as any interested consumers Leave It in the Ground John C. Berg,2019-09-03 Employing scientific explanations and hard data this book shows why coal is such a problem how the pro coal forces got to be so powerful and how those forces might be defeated through political activism Coal provided the energy to build modern civilization This energy source raised standards of living multiplied the earth s population and enabled people in developed countries to enjoy leisure time Today we know that if we burn all the coal available climate change will continue to increase But the use of coal isn t purely an environmental issue political and economic forces are also at play This book examines the politics and environmental impact of coal production and distribution presenting a clear point of view that we must shift away from coal use backed by hard data and supplying specific prescriptions for opposing and regulating the coal industry John C Berg explains how ending the burning of coal and of oil and natural gas is a political problem rather than a technical one explodes the clean coal myth providing scientific documentation of how burning coal emits more greenhouse gases per unit of energy than any other fuel and describes how controlling coal use in the United States will also restore the possibility of a meaningful international climate agreement Additionally readers will understand the critical importance of activism from local to international in spurring government regulation to control the coal industry which can only be defeated politically **Every American an Innovator** Matthew Wisnioski,2025-05-13 A landmark cultural history that reveals how the relentless pursuit of innovation has transformed our society our institutions and our inner selves For half a century innovation served as a universal good in an age of fracture That consensus is cracking While the imperative to innovate for a better future continues to fuel systemic change around the world critics now assail innovation culture as an engine of inequality or accuse its do gooders of woke groupthink What happened Drawing on a decade of research Every American an Innovator by Matthew Wisnioski investigates how innovation a once obscure academic term became ingrained in our institutions our education and our beliefs about ourselves Wisnioski

argues that innovation culture did not spring from the digital revolution nor can it be boiled down to heroic entrepreneurs or villainous capitalists. Instead, he reveals the central role of a new class of experts in spreading toolkits and mindsets from the cornfields of 1940s Iowa to Silicon Valley tech giants today. This group of engineers, philosophers, bureaucrats, and business leaders posited that innovators were society's most important change agents and remade the nation in their image. The innovation culture they built transcended partisan divisions and made strange bedfellows. Wisnioski shows how Kennedy era policymakers inspired President Nixon's dream of a Nobel Prize for innovators, how anti-military professors built the first university incubators for entrepreneurs, how radical feminists became millionaire consultants, how demands for a rust belt manufacturing renaissance inspired theories of a global creative class, how programs that encouraged girls and minority children to pursue innovative lives changed the nature of childhood play, and why the innovation consensus is now in dispute.

Extreme Precipitation Events: Spatio-Temporal Connections, Forecasting, Generation, Impact Analysis, Vulnerability and Risk Assessment Sanjeev Kumar Jha, Hannes Müller-Thomy, Jaepil Cho, 2023-03-17 *Nuclear Science Abstracts*, 1965 **Navigating the Clean Water Act** United States. Congress. House. Committee on Science, Space, and Technology (2011), United States. Congress. House. Committee on Science, Space, and Technology (2011-), 2015

Advances in Debris-flow Science and Practice Matthias Jakob, Scott McDougall, Paul Santi, 2024-03-28 This book provides a summary of the state of the art of all facets of debris flow science and practice and is designed to be a comprehensive technical reference for practitioners and a state of the art research overview for scientists. It is richly illustrated with equations, graphs, photos, and tables. The book allows students, practitioners, and regulators to get a sense of the current state of the art in this science. Currently, there are 2 to 3 papers published every week on some aspects of debris flow science. This creates a bewildering amount of literature that cannot be captured by a single individual. This book provides a comprehensive overview of all facets to date, including initial hazard assessments, detailed quantitative risk assessments, debris flow warning systems, debris flow mitigation structure designs, and failures of mitigation works, as well as new topics such as climate change effects on debris flows. **Commonsense Reasoning** Erik T. Mueller, 2014-11-11 To endow computers with common sense is one of the major long-term goals of artificial intelligence research. One approach to this problem is to formalize commonsense reasoning using mathematical logic. *Commonsense Reasoning: An Event Calculus Based Approach* is a detailed high-level reference on logic-based commonsense reasoning. It uses the event calculus, a highly powerful and usable tool for commonsense reasoning, which Erik Mueller demonstrates as the most effective tool for the broadest range of applications. He provides an up-to-date work promoting the use of the event calculus for commonsense reasoning and bringing into one place information scattered across many books and papers. Mueller shares the knowledge gained in using the event calculus and extends the literature with detailed event calculus solutions that span many areas of the commonsense world. The Second Edition features new chapters on commonsense reasoning using unstructured

information including the Watson system commonsense reasoning using answer set programming and techniques for acquisition of commonsense knowledge including crowdsourcing Understand techniques for automated commonsense reasoning Incorporate commonsense reasoning into software solutions Acquire a broad understanding of the field of commonsense reasoning Gain comprehensive knowledge of the human capacity for commonsense reasoning

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