

# **Physical Sciences**

***November***

**EXAM PAPERS**

# Physical Science Paper November 2014 National

**Dan Kalman, Sacha Forgoston, Albert  
Goetz**



## **Physical Science Paper November 2014 National:**

**Statistical Challenges in Assessing and Fostering the Reproducibility of Scientific Results** 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, 2016-02-29 Questions about the reproducibility of scientific research have been raised in numerous settings and have gained visibility through several high profile journal and popular press articles Quantitative issues contributing to reproducibility challenges have been considered including improper data measurement and analysis inadequate statistical expertise and incomplete data among others but there is no clear consensus on how best to approach or to minimize these problems A lack of reproducibility of scientific results has created some distrust in scientific findings among the general public scientists funding agencies and industries While studies fail for a variety of reasons many factors contribute to the lack of perfect reproducibility including insufficient training in experimental design misaligned incentives for publication and the implications for university tenure intentional manipulation poor data management and analysis and inadequate instances of statistical inference The workshop summarized in this report was designed not to address the social and experimental challenges but instead to focus on the latter issues of improper data management and analysis inadequate statistical expertise incomplete data and difficulties applying sound statistic inference to the available data Many efforts have emerged over recent years to draw attention to and improve reproducibility of scientific work This report uniquely focuses on the statistical perspective of three issues the extent of reproducibility the causes of reproducibility failures and the potential remedies for these failures **Optimizing the U.S.**

**Ground-Based Optical and Infrared Astronomy System** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategy to Optimize the U.S. Optical and Infrared System in the Era of the Large Synoptic Survey Telescope (LSST), 2015-06-26 New astronomical facilities such as the under construction Large Synoptic Survey Telescope and planned 30 meter class telescopes and new instrumentation on existing optical and infrared OIR telescopes hold the promise of groundbreaking research and discovery How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants Optimizing the U S Ground Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council NRC decadal surveys New Worlds New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013 2022 as well as other NRC reports This report describes a vision for a U S OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities and near term critical coordination planning and instrumentation needed to usher in the era of LSST and giant

telescopes      **What We Think About When We Try Not To Think About Global Warming** Per Espen Stoknes,2015

Today about 98 percent of scientists affirm that climate change is human made and about 2 percent still question it Despite that overwhelming majority though about half the population of rich countries like ours choose to believe the 2 percent And paradoxically this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades This disconnect has both climate scientists and activists scratching their heads growing anxious and responding usually by repeating more facts to win the argument But the more climate facts pile up the greater the resistance to them grows and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead Is humanity up to the task It is a catch 22 that starts says psychologist and climate expert Per Espen Stoknes from an inadequate understanding of the way most humans think act and live in the world around them With dozens of examples he shows how to retell the story of climate change and apply communication strategies more fit for the task Publisher s description      **Teaching and Digital Technologies** Michael Henderson,Geoff Romeo,2016-01-08

Teaching and Digital Technologies Big Issues and Critical Questions helps both pre service and in service teachers to critically question and evaluate the reasons for using digital technology in the classroom Unlike other resources that show how to use specific technologies and quickly become outdated this text empowers the reader to understand why they should or should not use digital technologies when it is appropriate or not and the implications arising from these decisions The text directly engages with policy the Australian Curriculum pedagogy learning and wider issues of equity access generational stereotypes and professional learning The contributors to the book are notable figures from across a broad range of Australian universities giving the text a unique relevance to Australian education while retaining its universal appeal Teaching and Digital Technologies is an essential contemporary resource for early childhood primary and secondary pre service and in service teachers in both local and international education environments      **An Assessment of ARPA-E**

National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,Committee on Evaluation of the Advanced Research Projects Agency-Energy (ARPA-E),2017-08-28 In 2005 the National Research Council report Rising Above the Gathering Storm recommended a new way for the federal government to spur technological breakthroughs in the energy sector It recommended the creation of a new agency the Advanced Research Projects Agency Energy or ARPA E as an adaptation of the Defense Advanced Research Projects Agency DARPA model widely considered a successful experiment that has funded out of the box transformative research and engineering that made possible the Internet GPS and stealth aircraft This new agency was envisioned as a means of tackling the nation s energy challenges in a way that could translate basic research into technological breakthroughs while also addressing economic environmental and security issues Congress authorized ARPA E in the 2007 America COMPETES Act and requested an early assessment

following 6 years of operation to examine the agency's progress toward achieving its statutory mission and goals. This report documents the results of that assessment. It includes both an operational assessment of the agency's funding programs and a technical assessment of its awards to the extent possible. *Nuclear Deterrence in a Multipolar World* Stephen

Cimbala, 2017-07-05 The view that America and Russia have burned their candles on security cooperation with respect to nuclear weapons is simply mistaken. This timely study identifies twelve themes or issue areas that must be addressed by the United States and Russia if they are to provide shared successful leadership in the management of nuclear world order. Designed as supplementary reading in upper division and graduate courses in national security policy, defense and nuclear arms control, it is also suitable for courses taught at military staff and command colleges and/or war colleges.

**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. *Public Health and Welfare: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2016-09-12 The prevention and treatment of diseases is a primary concern for any nation in modern society. To maintain an effective public health system, procedures and infrastructure must be analyzed and enhanced accordingly. *Public Health and Welfare: Concepts, Methodologies, Tools, and Applications* provides a comprehensive overview of

the latest research perspectives on public health initiatives and promotion efforts Highlighting critical analyses and emerging innovations on an international scale this book is a pivotal reference source for professionals researchers academics practitioners and students interested in the improvement of public health infrastructures      **Simulation and Gaming**

Dragan Cvetković, 2018-02-14 The book *Simulation and Gaming* discusses the following topics and research areas game based methods of problem solution and data processing analysis and information mining educational games and game features including game characteristics story mechanics and methodology development of integrated games tasked with helping students in interpreting translating and manipulating the field of kinematics through formal presentations possibility of research integration through real and practical examples and games as well in the field of physics analysis of game engines from various aspects such as modularity performance and usability virtual reality VR and interaction mechanisms used for three dimensional 3D game development analysis development design implementation and evaluation of the simulation model in the field of engineering and metallurgy according to ADDIE model concept of computational thinking with an accent on its inclusion in compulsory education overview of the current prominence of AI simulation based in the gaming leisure industry mainly for research purposes in the context of gambling and forecasting of online casino patron s churn behavior innovative modeling and simulation approach using newly proposed advanced game based mathematical framework unified game based acquisition framework and a set of war gaming engines to address the challenges for acquisition of future space systems modification of simulation of a complex system and a physics model through programming achieved with a block based programming language      **Handbook of the Politics of the Arctic** Leif

Christian Jensen, Geir Hønneland, 2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geo politics and international law this *Handbook* offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries

*Oil's Deep State* Kevin Taft, 2017-10-06 Why have democratic governments failed to take serious steps to reduce carbon emissions despite dire warnings and compelling evidence of the profound and growing threat posed by global warming Most of the writing on global warming is by scientists academics environmentalists and journalists Kevin Taft a former leader of the opposition in Alberta brings a fresh perspective through the insight he gained as an elected politician who had an insider s eyewitness view of the role of the oil industry His answer in brief The oil industry has captured key democratic institutions in both Alberta and Ottawa Taft begins his book with a perceptive observer s account of a recent court case in Ottawa which laid bare the tactics and techniques of the industry its insiders and lobbyists He casts dramatic new light on exactly how corporate lobbyists politicians bureaucrats universities and other organizations are working together to pursue the oil industry s agenda He offers a brisk tour of the recent work of scholars who have developed the concepts of the deep state

and institutional capture to understand how one rich industry can override the public interest Taft views global warming and weakened democracy as two symptoms of the same problem the loss of democratic institutions to corporate influence and control He sees citizen engagement and direct action by the public as the only response that can unravel big oil s deep state

**Review of the MEPAG Report on Mars Special Regions** European Science Foundation,European Space Sciences Committee,National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Space Studies Board,Committee to Review the MEPAG Report on Mars Special Regions,2016-01-15 Planetary protection is a guiding principle in the design of an interplanetary mission aiming to prevent biological contamination of both the target celestial body and the Earth The protection of high priority science goals the search for life and the understanding of the Martian organic environment may be compromised if Earth microbes carried by spacecraft are grown and spread on Mars This has led to the definition of Special Regions on Mars where strict planetary protection measures have to be applied before a spacecraft can enter these areas At NASA s request the community based Mars Exploration Program Analysis Group MEPAG established the Special Regions Science Analysis Group SR SAG2 in October 2013 to examine the quantitative definition of a Special Region and proposed modifications to it as necessary based upon the latest scientific results Review of the MEPAG Report on Mars Special Regions reviews the conclusions and recommendations contained in MEPAG s SR SAG2 report and assesses their consistency with current understanding of both the Martian environment and the physical and chemical limits for the survival and propagation of microbial and other life on Earth This report provides recommendations for an update of the planetary protection requirements for Mars Special Regions

**Accidental Conflict** Stephen Roach,2022-11-08 The misguided forces driving conflict escalation between America and China and the path to a new relationship A timely fluid readable assessment of a testy and rapidly changing global relationship Kirkus Reviews starred review In the short span of four years America and China have entered a trade war a tech war and a new Cold War This conflict between the world s two most powerful nations wouldn t have happened were it not for an unnecessary clash of false narratives America falsely blames its trade and technology threats on China yet overlooks its shaky saving foundation China falsely blames its growth challenges on America s alleged containment of market based socialism ignoring its failed economic rebalancing In a hard hitting analysis of both nations economies politics and policies Stephen Roach argues that much of the rhetoric on both sides is dangerously misguided amplified by information distortion and more a reflection of each nation s fears and vulnerabilities than a credible assessment of the risks they face Outlining the disastrous toll of conflict escalation between China and America Roach offers a new road map to restoring a mutually advantageous relationship

**Climate Hazard Crises in Asian Societies and Environments** Troy Sternberg,2017-01-20 Climate hazards are the world s most widespread deadliest and costliest natural disasters Knowledge of climate hazard dynamics is critical since the impacts of climate change population growth development projects and migration affect both the impact and severity of disasters

Current global events highlight how hazards can lead to significant financial losses increased mortality rates and political instability This book examines climate hazard crises in contemporary Asia identifying how hazards from the Middle East through South and Central Asia and China have the power to reshape our globalised world In an era of changing climates knowledge of hazard dynamics is essential to mitigating disasters and strengthening livelihoods and societies across Asia By integrating human exposure to climate factors and disaster episodes the book explores the environmental forces that drive disasters and their social implications Focusing on a range of Asian countries landscapes and themes the chapters address several scales province national regional different hazards drought flood temperature storms dust environments desert temperate mountain coastal and issues vulnerability development management politics to present a diverse comprehensive evaluation of climate hazards in Asia This book offers an understanding of the challenges climate hazards present their critical nature and the effort needed to mitigate climate hazards in 21st century Asia *Climate Hazard Crises in Asian Societies and Environments* is vital reading for those interested and engaged in Asia s development and well being today and will be of interest to those working in Geography Development Studies Environmental Sciences Sociology and Political Science *Georgetown Journal of International Affairs, Summer/Fall 2015* Mike Fox,Angela Ribaud,2015-07-31 The Georgetown Journal of International Affairs is the official publication of the Edmund A Walsh School of Foreign Service at Georgetown University Each issue of the journal provides readers with a diverse array of timely peer reviewed content penned by top policymakers business leaders and academic luminaries The theme of this issue will be a look at the United Nations past present and future to commemorate its 70th anniversary The secondary theme will be global development

**Regional Risk and Security in Japan** Glenn D. Hook,Ra Mason,Paul O'Shea,2015-05-20 Japan s unusual position in the realm of international politics encapsulates a three fold juxtaposition both in and out of Asia both occupied by and a close ally of the United States and both a key trade partner and a strategic rival of China Whilst international relations theory offers a number of ways to analyse these relations this book instead utilizes the concept of risk to provide an innovative perspective on Japan s relations with China North Korea and the US The book elucidates how risk potential harm and harm are faced disproportionately by certain groups in society This is demonstrated by providing an empirically rich analysis of the domestic implications of security relations with China North Korea and the United States through the presence of US troops in Okinawa Beginning with a theoretical discussion of risk it goes on to demonstrate how the concept of risk adds value to the study of international relations in three senses First the concept helps to break down the boundaries between the international and domestic Second the focus on risk and the everyday directs us to ask basic questions about the costs and benefits of a security policy meant to secure the national population Third what implications do these two points have for governance The question is one of governance as Japan s externally oriented security policy produces domestic insecurity shared disproportionately not equally as this volume makes clear Developing the theory of risk as a tool for understanding



international relations this book will be of great interest to students and scholars of Asian politics Japanese politics international relations and security studies as well as to policy makers and practitioners working in the field

**Nuclear Terrorism and National Preparedness** Samuel Apikyan, David Diamond, 2015-07-08 The nuclear crisis in Fukushima and growing threats of nuclear terrorism must serve as a wake up call prompting greater action to prepare ourselves for nuclear and radiological disasters Our strategy to prepare for these threats is multi layered and the events of these past years have proved the necessity to re evaluate the national and international preparedness goals on a scale never before considered The programme of NATO Advanced Research Workshop on Preparedness for Nuclear and Radiological Threats has been focused on science and technology challenges associated with our need to improve the national and international capacity and capability to prevent protect against mitigate the effects of respond to and recover from the nuclear and radiological disasters including nuclear and radiological accident terrorist attack by Improvised Nuclear Device IND or by Dirty Bomb Radiological Dispersal Device RDD that pose the greatest risk to the national and international security and safety

**Count Girls In** Karen Panetta, Katianne Williams, 2018-08-01 Maybe you have a daughter who loves cooking soccer and musicals Maybe she s a social butterfly an athlete a fashionista and a humanitarian who wants to change the world Be honest do you think Well she s clearly not a math and science kid Do you assume that certain classes and careers won t appeal to her Count Girls In challenges these assumptions and presents a totally different way of thinking there is a place for all girls and young women not just the science fair winners and robotics club members in science technology engineering and math STEM fields if we can keep their and our minds and options open and meet them where they are To succeed in STEM fields today girls don t have to change who they are A girl who combines her natural talents interests and dreams with STEM skills has a greater shot than ever before at a career she loves and a salary she deserves Count Girls In encourages parents and other adults to raise authentic young women who have the confidence to put STEM to work in a way that best serves them and their passions The authors both STEM professionals present compelling research in a conversational accessible style and provide specific advice and takeaways for each stage of schooling from elementary school through college followed by comprehensive STEM resources This isn t a book about raising competitive test acing girls in lab coats this is about raising happy confident girls who realize the world of opportunities before them

*Introductory Nanoelectronics* Vinod Kumar Khanna, 2020-07-20 This introductory text develops the reader s fundamental understanding of core principles and experimental aspects underlying the operation of nanoelectronic devices The author makes a thorough and systematic presentation of electron transport in quantum confined systems such as quantum dots quantum wires and quantum wells together with Landauer B ttiker formalism and non equilibrium Green s function approach The coverage encompasses nanofabrication techniques and characterization tools followed by a comprehensive exposition of nanoelectronic devices including resonant tunneling diodes nanoscale MOSFETs carbon nanotube FETs high electron mobility transistors single

electron transistors and heterostructure optoelectronic devices The writing throughout is simple and straightforward with clearly drawn illustrations and extensive self study exercises for each chapter Introduces the basic concepts underlying the operation of nanoelectronic devices Offers a broad overview of the field including state of the art developments Covers the relevant quantum and solid state physics and nanoelectronic device principles Written in lucid language with accessible mathematical treatment Includes extensive end of chapter exercises and many insightful diagrams Elementary Mathematical Models: An Accessible Development without Calculus, Second Edition Dan Kalman, Sacha Forgoston, Albert Goetz, 2019-08-02 Elementary Mathematical Models offers instructors an alternative to standard college algebra quantitative literacy and liberal arts mathematics courses Presuming only a background of exposure to high school algebra the text introduces students to the methodology of mathematical modeling which plays a role in nearly all real applications of mathematics A course based on this text would have as its primary goal preparing students to be competent consumers of mathematical modeling in their future studies Such a course would also provide students with an understanding of the modeling process and a facility with much of the standard non trigonometric content of college algebra and precalculus This book builds successively a series of growth models defined in terms of simple recursive patterns of change corresponding to arithmetic quadratic geometric and logistic growth Students discover and come to understand linear polynomial exponential and logarithmic functions in the context of analyzing these models of intrinsically and scientifically interesting phenomena including polar ice extent antibiotic resistance and viral internet videos Students gain a deep appreciation for the power and limitations of mathematical modeling in the physical life and social sciences as questions of modeling methodology are carefully and constantly addressed Realistic examples are used consistently throughout the text and every topic is illustrated with models that are constructed from and compared to real data The text is extremely attractive and the exposition is extraordinarily clear The lead author of this text is the recipient of nine MAA awards for expository writing including the Ford Evans Plya and Allendoerfer awards and the Beckenbach Book prize Great care has been taken by accomplished expositors to make the book readable by students Those students will also benefit from more than 1 000 carefully crafted exercises

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