



Province of the  
**EASTERN CAPE**  
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**BUFFALO CITY METRO DISTRICT**

**GRADE 10**

**PHYSICAL SCIENCES (PHYSICS P1)**

**OCTOBER 2023**

## **MEMORANDUM**

**MARKS: 100**

**TIME: 2 HOURS**

*THIS MEMORANDUM CONSISTS OF 8 PAGES INCLUDING THE COVER PAGE.*

# Physical Science Paper 1 Memorandum September 2013

**Anna Maria Gil-Lafuente, Constantin  
Zopounidis**



## **Physical Science Paper 1 Memorandum September 2013:**

The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures *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 **Space Studies Board Annual Report 2013** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2014-04-09 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 2013 covers a message from the chair of the SSB, Charles F. Kennel. 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 as members of the SSB policy makers and researchers.

*A History of Scientific Journals* Aileen Fyfe, Noah Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03. Modern scientific research has changed so much since Isaac Newton's day that it is more professional, collaborative, and international, with more complicated equipment and a more diverse community of researchers. Yet the use of scientific journals to report, share, and store results is a thread that runs through the history of science from Newton's day to ours. Scientific journals are now central to academic research and careers. Their editorial and peer review processes act as a check on new claims and findings, and researchers build their careers on the list of journal articles they have published. The journal that reported Newton's optical experiments still exists. First published in 1665 and now fully digital, the Philosophical Transactions has carried papers by Charles Darwin, Dorothy Hodgkin, and Stephen Hawking. It is now one of eleven journals published by the Royal Society of London. Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing. The editorial management, business practices, and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community. At a time when we are surrounded by calls to reform the academic publishing system, it has never been more urgent that we understand its history.

*Energy and Water Development Appropriations for 2016* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2015

Vibrio ecology, pathogenesis and evolution Rita R. Colwell, Daniela Ceccarelli, 2014-10-24. Vibrios are Gram-negative bacilli that occur naturally in marine, estuarine, and freshwater systems. Some species include human and animal pathogens capable of causing gastroenteritis, wound infections, cholera, and fatal septicemia. Over the past decades, cutting-edge research on Vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens. Significant developments include the discovery of emerging epidemic clones, tracking the spread of new strain variants, and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread, as well as pathogenesis. Furthermore, improved understanding of the interaction of Vibrios with a variety of living organisms in the aquatic environment has documented the significant role

of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of Vibrios ecology and evolution and will suggest the pathway of future research in this field

**Engineering Vulnerability**

Sarah E. Vaughn, 2022-02-07 In *Engineering Vulnerability* Sarah E Vaughn examines climate adaptation against the backdrop of ongoing processes of settler colonialism and the global climate change initiatives that seek to intervene in the lives of the world's most vulnerable Her case study is Guyana in the aftermath of the 2005 catastrophic flooding that ravaged the country's Atlantic coastal plain The country's ensuing engineering projects reveal the contingencies of climate adaptation and the capacity of flooding to shape Guyanese expectations about racial inequality Analyzing the coproduction of race and vulnerability Vaughn details why climate adaptation has implications for how we understand the past and the continued human settlement of a place Such understandings become particularly apparent not only through experts and ordinary citizens' disputes over resources but in their attention to the ethical practice of technoscience over time Approaching climate adaptation this way Vaughn exposes the generative openings as well as gaps in racial thinking for theorizing climate action environmental justice and more broadly future life on a warming planet Duke University Press Scholars of Color First Book Award recipient

**The Source of**

**All Things** Reinhard Friedl, 2025-08-22 In the tradition of Henry Marsh's *Do No Harm* Reinhard Friedl's *The Source of All Things* is a heart surgeon's personal investigation of the human heart moving from his riveting clinical experiences to a more poetic understanding of its workings The heart is our most important organ Yet despite that it has not changed since the appearance of *Homo sapiens* 300,000 years ago it is also our most mysterious In most human cultures it is seen as the source of love sympathy joy courage strength and wisdom What if the heart could answer questions neurosciences can't begin to Having witnessed the extraordinary complexity and unpredictability of human hearts in the operating theatre each one individual like a fingerprint heart surgeon Reinhard Friedl looked again at this primitive pump to reconcile it with his experiences from thousands of heart operations In this book he presents findings from various scientific disciplines such as secret connections of the heart and brain and their influence on emotions and consciousness He reveals the miracle that is the heart that we speak about so often yet is strangely foreign to many human beings Full of compelling patient stories *The Source of All Things* ends with a plea that we recognize the heart's wisdom and adopt a more heart-centered way of living leading to greater health and more joy

**Decision Making and Knowledge Decision Support Systems**

Anna Maria Gil-Lafuente, Constantin Zopounidis, 2014-12-01 This book presents recent advancements of research new methods and techniques applications and projects in decision making and decision support systems It explores expert systems and neural networks knowledge engineering and management fuzzy sets and systems and computational methods for optimization data analysis and decision making It presents applications in Economics Finance Management and Engineering The book

undertakes to stimulate scientific exchange ideas and experiences in the field of decision making in Economy and Management Researchers and practitioners alike will benefit from this book when they are dealing with imprecision vagueness and uncertainty in the context of decision making      **The UFO Phenomenon** Robert Davis,2015-02-28 A comprehensive perspective of evidence and future directions associated with the UFO phenomenon Includes review and analysis of studies evidence theories and research needs involving UFO topics Extensive scientific endnotes      *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      *Bulk Collection of Signals Intelligence* National Research Council,Division on Engineering and Physical Sciences,Computer Science and Telecommunications Board,Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection,2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for

in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report *Breakout* Newt Gingrich,2013-11-04 It is not between the Left and the Right but between the past and the future America is on the edge of a breakout In fact we are poised for one of the most spectacular leaps in human well being in history Pioneers of the future innovators and entrepreneurs are achieving breakthroughs in medicine transportation energy education and other fields that will make the world a dramatically different and better place Unless the prison guards of the past stop them Every American must choose a side Will you be a champion of the future or a prisoner of the past Every potential breakthrough has to get past a host of individuals and institutions whose power and comfort depend on the status quo These prison guards of the past will strangle every innovation that threatens to change the way things have always been done if we let them

**Managing Water and Agroecosystems for Food Security** Eline Boelee,2013 Water protection food production and ecosystem health are worldwide issues Changes in the global water cycle are affecting human well being in many places while widespread land and ecosystem degradation driven by poor agricultural practices is seriously limiting food production Understanding the links between ecosystems water and food production is important to the health of all three and sustainably managing these connections is becoming increasingly necessary This book shows how sustainable ecosystems especially agroecosystems are essential for water management and food production

**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

**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

**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 *Transnational Perspectives on Curriculum History* Gary McCulloch,Ivor Goodson,Mariano

González-Delgado,2019-11-22 This book offers a remarkable range of research that emphasises the need to analyse the shaping of curricula under historical social and political variables Teachers life stories the Cold War as a contextual element that framed curricular transformations in the US and Europe and the study of trends in education policy at transnational level are issues addressed throughout The book presents new lines of work offering multidisciplinary perspectives and provides an overview of how to move forwards The book brings together the work of international specialists on Curriculum History and presents research that offers new perspectives and methodologies from which to approach the study of the History of Education and Educational Policy It offers new debates which rethink the historical study of the curriculum and offers a strong interdisciplinary approach with contributions across Education History and the Social Sciences This book will be of great interest for academics and researchers in the fields of education and curriculum studies It will also appeal to educational professionals teachers and policy makers *Handbook on the Politics of Antarctica* Klaus Dodds,Alan D.

Hemmings,Peder Roberts,2017-01-27 The Antarctic and Southern Ocean are hotspots for contemporary endeavours to oversee the last frontier of the Earth The Handbook on the Politics of Antarctica offers a wide ranging and comprehensive overview of the governance geopolitics international law cultural studies and history of the region Four thematic sections take readers from the earliest human encounters to contemporary resource exploitation and climate change Written by leading experts the Handbook brings together the very best interdisciplinary social science and humanities scholarship on the Antarctic and Southern Ocean **New Critical Spaces in Transitional Justice** Arnaud Kurze,Christopher K.

Lamont,2019-01-10 Since the 1980s transitional justice mechanisms have been increasingly applied to account for mass atrocities and grave human rights violations throughout the world Over time post conflict justice practices have expanded across continents and state borders and have fueled the creation of new ideas that go beyond traditional notions of amnesty retribution and reconciliation Gathering work from contributors in international law political science sociology and history

New Critical Spaces in Transitional Justice addresses issues of space and time in transitional justice studies. It explains new trends in responses to post conflict and post authoritarian nations and offers original empirical research to help define the field for the future.

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