



# education

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MPUMALANGA PROVINCE



GRADE 11

PHYSICAL SCIENCES  
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QUESTION PAPER (1)

MARKS: 100

TIME : 2:00 HOURS

This question paper consists of 17 pages including the data sheets

# **June Memorandum 2014 Physical Science Paper 2**

**Liesbeth De Mol, Giuseppe Primiero**



## June Memorandum 2014 Physical Science Paper 2

**This Changes Everything** Naomi Klein, 2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational political change

**Freedom's Laboratory** Audra J. Wolfe, 2018-11-15 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

**Beyond Control** James F. Barnett Jr., 2017-03-16 Beyond Control reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country s largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi s move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi

River's impending diversion the book's chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century *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 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 *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

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

*Physical Science Under Microgravity: Experiments on Board the SJ-10 Recoverable Satellite* Wenrui Hu, Qi Kang, 2019-10-16 This book presents the physical science experiments in a space microgravity environment conducted on board the SJ 10 recoverable satellite which was launched on April 6th 2016 and recovered on April 18th 2016 The experiments described were selected from 100 proposals from various institutions in China and around the world and have never previously been conducted in the respective fields They involve fluid physics and materials science and primarily investigate the kinetic properties of matter in a space microgravity environment The book provides a comprehensive review of these experiments as well as the mission's execution data collection and scientific outcomes

*Vaccinating Britain* Gareth Millward, 2019-01-29 This electronic version has been made available under a Creative Commons BY NC ND open access license This book is available as an open access ebook under a CC BY NC ND licence Vaccinating Britain shows how the British public has played a central role in the development of vaccination policy since the Second World War It explores the relationship between the public and public health through five key vaccines diphtheria smallpox poliomyelitis whooping cough and measles mumps rubella MMR It reveals that while the British public has embraced vaccination as a safe effective and cost efficient form of preventative medicine demand for vaccination and trust in the authorities that provide it has ebbed and flowed according to historical circumstances It is the first book to offer a long term perspective on vaccination across

different vaccine types This history provides context for students and researchers interested in present day controversies surrounding public health immunisation programmes Historians of the post war British welfare state will find valuable insight into changing public attitudes towards institutions of government and vice versa **The Senate Intelligence Committee Report on Torture (Academic Edition)** Senate Select Committee On Intelligence,2020-02-18 The study edition of book the Los Angeles Times called The most extensive review of U S intelligence gathering tactics in generations This is the complete Executive Summary of the Senate Intelligence Committee s investigation into the CIA s interrogation and detention programs a k a The Torture Report Based on over six million pages of secret CIA documents the report details a covert program of secret prisons prisoner deaths interrogation practices and cooperation with other foreign and domestic agencies as well as the CIA s efforts to hide the details of the program from the White House the Department of Justice the Congress and the American people Over five years in the making it is presented here exactly as redacted and released by the United States government on December 9 2014 with an introduction by Daniel J Jones who led the Senate investigation This special edition includes Large easy to read format Almost 3 000 notes formatted as footnotes exactly as they appeared in the original report This allows readers to see obscured or clarifying details as they read the main text An introduction by Senate staffer Daniel J Jones who led the investigation and wrote the report for the Senate Intelligence Committee and a forward by the head of that committee Senator Dianne Feinstein

**The Science of Armour Materials** Ian Crouch,2016-09-21 The Science of Armour Materials comprehensively covers the range of armor materials from steels and light alloys through glasses and ceramics to fibers textiles and protective apparel The book also discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies Each chapter is written from an international perspective including reviews of the current global literature and incorporates case studies that focus upon real life applications research outcomes and lessons learned The threat spectrum is restricted to small arms ammunition high velocity fragments and stab and spike attacks as well as blast loadings Features input from an editor who is an expert in his field Dr Ian Crouch the author of over 80 publications in his field with three patents to his name Provides systematic and comprehensive coverage of armor materials modeling and testing Offers a cross disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies

**Science Teaching in Schools** Great Britain: Parliament: House of Lords: Science and Technology Committee,2006-11-05 The Committee s report examines science and mathematics teaching in secondary schools in England focusing on the following issues the take up of science and mathematics at GCSE and A level the provision of careers advice to students problems in the recruitment and retention of teachers the quality of teaching methods and the role of continuing professional development The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in

society and to enable the next generation of scientists and engineers to progress into higher education and beyond It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14 19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools

*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

**Physical Science** National Learning Corporation,2018 The DSST Physical Science Passbook R prepares candidates for the DSST exam which enables schools to award credit for knowledge acquired outside the normal classroom environment It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to physics electricity and magnetism Glossyr chemical reactions atomic structure and more

**Language, Life, Limits** Arnold Beckmann,Ersébet Csuhaj-Varjú,Klaus

Meer,2014-06-05 This book constitutes the refereed proceedings of the 10th Conference on Computability in Europe CiE 2014 held in Budapest Hungary in June 2014 The 42 revised papers presented were carefully reviewed and selected from 78 submissions and included together with 15 invited papers in this proceedings The conference had six special sessions computational linguistics bio inspired computation history and philosophy of computing computability theory online algorithms and complexity in automata theory

*How Data Happened: A History from the Age of Reason to the Age of Algorithms* Chris Wiggins,Matthew L. Jones,2023-03-21 Fascinating Jill Lepore The New Yorker A sweeping history of data and its technical political and ethical impact on our world From facial recognition capable of checking people into flights or identifying undocumented residents to automated decision systems that inform who gets loans and who receives bail each of us moves through a world determined by data empowered algorithms But these technologies didn't just appear they are part of a history that goes back centuries from the census enshrined in the US Constitution to the birth of eugenics in Victorian Britain to the development of Google search Expanding on the popular course they created at Columbia University Chris Wiggins and Matthew L Jones illuminate the ways in which data has long been used as a tool and a weapon in arguing for what is true as well as a means of rearranging or defending power They explore how data was created and curated as well as how new mathematical and computational techniques developed to contend with that data serve to shape people ideas society military operations and economies Although technology and mathematics are at its heart the story of data ultimately concerns an unstable game among states corporations and people How were new technical and scientific capabilities developed who supported advanced or funded these capabilities or transitions and how did they change who could do what from what and to whom Wiggins and Jones focus on these questions as they trace data's historical arc and look to the future By understanding the trajectory of data where it has been and where it might yet go Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose with intentionality and purpose

**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

**Modern Engineered Bamboo Structures** Y Xiao,Z Li,K.W. Liu,2019-09-25 Fast growing and local to some of the poorest communities in the tropics and subtropics bamboo holds huge potential for climate change mitigation innovative construction and job creation but the material is rarely used for more than simple construction and household use Modern Engineered Bamboo Structures collects the papers presented at the third International Conference on Modern Bamboo Structures ICBS2018 Beijing China 25 27 June 2018 The overarching theme of the book is Enhancing Cooperation for Green Development through Bamboo s Contribution to the Sustainable Development Goals The contributions focus on how to realize bamboo s huge potential in a number of areas sustainable commodity production disaster resilient construction poverty alleviation climate change mitigation and adaptation land restoration and biodiversity protection Modern Engineered Bamboo Structures recognizes bamboo s various benefits and aims at ministers policymakers and representatives from research institutes development organizations NGOs or UN bodies and the private sector

**Handbook of Space Resources** Viorel Badescu,Kris Zacny,Yoseph Bar-Cohen,2023-04-27 Earth has limited material and energy resources while these resources are virtually unlimited in space It is only a matter of time before planetary resources are mined and used in situ to sustain human and robotic exploration or returned to Earth for commercial gain This book covers a number of aspects related to space resources In particular subjects related to mission concepts exploration approaches mining and extraction technologies commercial potential and regulatory aspects of space resources are covered in detail This book is therefore a good resource for readers who seek background and deeper understanding of space resources related activities

**Reflections on Programming Systems** Liesbeth De Mol,Giuseppe Primiero,2019-01-10 This book presents a historical and philosophical analysis of programming systems intended as large computational systems like for instance operating systems programmed to control processes The introduction to the volume emphasizes the contemporary need of providing a

foundational analysis of such systems rooted in a broader historical and philosophical discussion The different chapters are grouped around three major themes The first concerns the early history of large systems developed against the background of issues related to the growing semantic gap between hardware and code The second revisits the fundamental issue of complexity of large systems dealt with by the use of formal methods and the development of grand designs like Unix Finally a third part considers several issues related to programming systems in the real world including chapters on aesthetical ethical and political issues This book will interest researchers from a diversity of backgrounds It will appeal to historians philosophers as well as logicians and computer scientists who want to engage with topics relevant to the history and philosophy of programming and more specifically the role of programming systems in the foundations of computing *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

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