

# PHYSICAL SCIENCES

## PAPER 1

MAY-JUNE

## MEMO

# 2025



Figure 8 is already drawn and E, the EMF (V) is equal to the voltage across the battery.

1. (1 mark each)  
State the meaning implied by each of the components.  
Answer these from A to D in the box and the rest in terms of meaningful explanation.



11. (4 marks)  
12. (2 marks)



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# Physical Sciences Paper 1 2014 June Memo

**Puja Mehta**



## **Physical Sciences Paper 1 2014 June Memo:**

**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

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

retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise

**Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions** offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

*Across Space and Time* Arianna Traviglia, 2025-10-01 This volume presents a selection of the best papers presented at the forty first annual Conference on Computer Applications and Quantitative Methods in Archaeology The theme for the conference was Across Space and Time and the papers explore a multitude of topics related to that concept including databases the semantic Web geographical information systems data collection and management and more

*Lie Theory and Its Applications in Physics* Vladimir Dobrev, 2023-01-29 This volume presents modern trends in the area of symmetries and their applications based on contributions to the Workshop Lie Theory and Its Applications in Physics held in Sofia Bulgaria on line in June 2021

Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i e representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators special functions and others Furthermore the necessary tools from functional analysis are included This is a big interdisciplinary and interrelated field The topics covered in this Volume are the most modern trends in the field of the Workshop Representation Theory Symmetries in String Theories Symmetries in Gravity Theories Supergravity Conformal Field Theory Integrable Systems Quantum Computing and Deep Learning Entanglement Applications to Quantum Theory Exceptional quantum algebra for the standard model of particle physics Gauge Theories and Applications Structures on Lie Groups and Lie Algebras This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory

**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     Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy misses opportunities for innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors     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     On Non-Generic Finite Subgroups of Exceptional Algebraic Groups Alastair J. Litterick, 2018-05-29 The study of finite subgroups of a simple algebraic group  $G$  reduces in a sense to those which are almost simple If an almost simple subgroup of  $G$  has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of  $G$  then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic     **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

**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

*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

**Energetic Materials Research, Applications, and New Technologies** Goncalves, Rene Francisco Boschi, Atilio Fritz Fidel Rocco, José, Iha, Koshun, 2017-12-29 In the last decade there has been an influx in the development of new technologies for deep space exploration Countries all around the world are investing in resources to create advanced energetic materials and propulsion systems for their aerospace initiatives Energetic Materials Research Applications and New Technologies is an essential reference source of the latest research in aerospace engineering and its application in space exploration Featuring comprehensive coverage across a range of related

topics such as molecular dynamics rocket engine models propellants and explosives and quantum chemistry calculations this book is an ideal reference source for academicians researchers advanced level students and technology developers seeking innovative research in aerospace engineering **Federal Register** ,2013-12 *The Path to 5G in the Developing World*

World Bank,2024-06-25 The global race for implementing 5G mobile technologies has seen countries riding a new wave of wireless technologies 5G the next generation of mobile technologies can enable a significantly higher level of performance over 4G mobile communications providing a new layer of connectivity to support innovative data intensive applications With the estimated impact of 5G on global gross domestic product to be in the trillions of US dollars 5G s deployment will drive innovation job creation worker productivity and competitiveness across various sectors Several use cases are already being tested and deployment is under way in many countries For some countries 5G may seem a distant future prospect given the costs of infrastructure deployment and the need for expensive handsets for other countries 5G is an on ramp to Industry 4 0 and has been folded into national strategy planning 5G trials pilots and commercial deployments have been progressing around the world but most deployments are in higher income countries Significant barriers remain for developing countries many of which pertain to the challenges faced by the broader telecommunications sector and all of which threaten to further widen the digital divide and limit access to the economic opportunities that 5G connectivity enables What does this reality mean for developing countries and how can national governments prepare The Path to 5G in the Developing World Planning Ahead for a Smooth Transition surveys the technical capabilities of 5G and explores how countries can reach connectivity goals by using 5G as a layer of connectivity along with 4G and other technologies This report also provides a guide for policy makers to better understand the opportunities challenges and risks posed by 5G so that they can plan for a policy and regulatory ecosystem that supports the path to advanced mobile network deployment access and adoption **The History**

**of the Study of Landforms or the Development of Geomorphology, Volume 5** T.P. Burt,A.S. Goudie,H.A. Viles,2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume s objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject

matter of twenty first century geomorphology      **The Oxford Handbook of Nuclear Security** ,2024-05-28 The Oxford Handbook of Nuclear Security provides a comprehensive examination of efforts to secure sensitive nuclear assets and mitigate the risk of nuclear terrorism and other non state actor threats It aims to provide the reader with a holistic understanding of nuclear security through exploring its legal political and technical dimensions at the international national and organizational levels Recognizing there is no one size fits all approach to nuclear security the book explores fundamental elements and concepts in practice through a number of case studies which showcase how and why national and organizational approaches have diverged Although focused on critiquing past and current activities unexplored yet crucial aspects of nuclear security are also considered and how gaps in international efforts might be filled Contributors to the handbook are drawn from a variety of different disciplinary backgrounds and experiences to provide a wide range of perspectives on nuclear security issues and move beyond the Western narratives that have tended to dominate the debate These include scholars from both developed and developing nuclear countries as well as practitioners working in the field of nuclear security in an effort to bridge the gap between theory and practice      Intersection Cohomology, Simplicial Blow-Up and Rational Homotopy David Chataur,Martintxo Saralegi-Aranguren,Daniel Tanré,2018-08-09 Let  $X$  be a pseudomanifold In this text the authors use a simplicial blow up to define a cochain complex whose cohomology with coefficients in a field is isomorphic to the intersection cohomology of  $X$  introduced by M Goresky and R MacPherson The authors do it simplicially in the setting of a filtered version of face sets also called simplicial sets without degeneracies in the sense of C P Rourke and B J Sanderson They define perverse local systems over filtered face sets and intersection cohomology with coefficients in a perverse local system In particular as announced above when  $X$  is a pseudomanifold the authors get a perverse local system of cochains quasi isomorphic to the intersection cochains of Goresky and MacPherson over a field We show also that these two complexes of cochains are quasi isomorphic to a filtered version of Sullivan s differential forms over the field  $Q$  In a second step they use these forms to extend Sullivan s presentation of rational homotopy type to intersection cohomology

*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

*Unwinnable* Theo Farrell, 2017-09-07 Afghanistan was an unwinnable war As British and American troops withdraw discover this definitive account that explains why It could have been a very different story British forces could have successfully withdrawn from Afghanistan in 2002 having done the job they set out to do to defeat al Qaeda Instead in the years that followed Britain paid a devastating price for their presence in Helmand province So why did Britain enter and remain in an ill fated war Why did it fail so dramatically and was this expedition doomed from the beginning Drawing on unprecedented access to military reports government documents and senior individuals Professor Theo Farrell provides an extraordinary work of scholarship He explains the origins of the war details the campaigns over the subsequent years and examines the West's failure to understand the dynamics of local conflict and learn the lessons of history that ultimately led to devastating costs and repercussions still relevant today The best book so far on Britain's war in Afghanistan International Affairs Masterful irrefutable Farrell records all these military encounters with the irresistible pace of a novelist Sunday Times

**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

Fuel your quest for knowledge with is thought-provoking masterpiece, Explore **Physical Sciences Paper 1 2014 June Memo** . This educational ebook, conveniently sized in PDF ( \*), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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