

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025

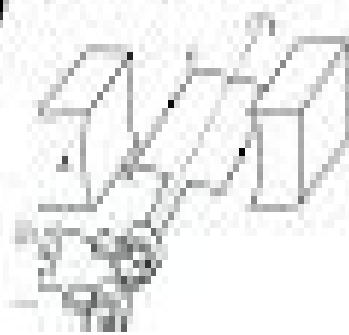


Figure 1 is a circuit diagram used for Question 1. The voltmeter is connected in parallel with the battery.

1.1 (1 mark)  
State the meaning of parallel connection of components.  
Answer: When two or more components are connected in such a way that the current can flow through more than one path.



- 2.1 (1 mark)  
What is the meaning of equilibrium?  
2.2 (1 mark)  
State the condition for equilibrium of a body.



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# June 2013 Physical Science Paper 1 Memorandum

**Thora Martina Herrmann, Thibault  
Martin**



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

**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 reimagine 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

**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

**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

**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

**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 *Federal Register* ,2013-09

**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

**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

**The Mathematical-Function Computation Handbook** Nelson H.F. Beebe,2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as

to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

**Where Have All the Democrats Gone?** Ruy Teixeira, John B. Judis, 2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In Where Have All the Democrats Gone John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country s current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

**Frontiers in Seafloor Geodesy** Ryota Hino, Keiichi Tadokoro, Laura Wallace, 2021-11-01

**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

**The Path to the Double Helix** Robert Olby, 2013-05-13 Written by a noted historian of science this in depth account traces how Watson and Crick achieved one of science s most dramatic feats their 1953 discovery of the molecular structure of DNA

**The Warming Papers** David Archer, Raymond Pierrehumbert, 2013-04-29 Chosen for the 2011 ASLI Choice Honorable Mention History Category for a compendium of the key scientific papers that undergird the global warming forecast Global warming is arguably the defining scientific issue of modern times but it is not widely appreciated that the foundations of our understanding were laid almost two centuries ago with the postulation of a greenhouse effect by Fourier in 1827 The sensitivity of climate to changes in atmospheric CO2 was first estimated about one century ago and the rise in atmospheric CO2 concentration was discovered half a century ago The fundamentals of the science underlying the forecast for human induced climate change were being published and debated long before the issue rose to public prominence in the last few decades The Warming Papers is a compendium of the classic scientific papers that constitute the foundation of the global warming forecast The paper trail ranges from Fourier and Arrhenius in the 19th Century to Manabe and Hansen in modern times Archer and Pierrehumbert provide introductions and commentary which places the papers in their context and provide students with tools to develop and extend their understanding of the subject The book captures the excitement and the uncertainty that always exist at the cutting edge of research and is invaluable reading for students of climate science scientists historians of science and others interested in climate change

**The Age of Hiroshima** Michael D. Gordin, G. John Ikenberry, 2020-01-14 A multifaceted portrait of the Hiroshima bombing and its many legacies On August 6 1945 in the waning days of World War II the United States dropped an atomic bomb on the Japanese city of Hiroshima The city s destruction stands as a powerful symbol of nuclear annihilation but it has also shaped how we think about war and peace the past and the present and science and ethics The Age of Hiroshima traces these complex legacies exploring how the meanings of Hiroshima have reverberated across the decades

and around the world Michael D Gordin and G John Ikenberry bring together leading scholars from disciplines ranging from international relations and political theory to cultural history and science and technology studies who together provide new perspectives on Hiroshima as both a historical event and a cultural phenomenon As an event Hiroshima emerges in the flow of decisions and hard choices surrounding the bombing and its aftermath As a phenomenon it marked a revolution in science politics and the human imagination the end of one age and the dawn of another The Age of Hiroshima reveals how the bombing of Hiroshima gave rise to new conceptions of our world and its precarious interconnectedness and how we continue to live in its dangerous shadow today Law, Death, and Robots Keri Grieman, 2024-10-17 Can the law keep up with AI This book examines liability and regulation for artificial intelligence causing serious physical harm both now and in the future While AI moves quickly regulation follows more slowly an increasing problem for an evolutionary fast paced emerging technology AI has the potential to save lives but in doing so will have the potential to take them as well How do we future proof law and regulation to incentivise life saving innovation as safely as possible This book details how to regulate AI in high risk civil applications for example automated vehicles and medicine addressing both liability and regulatory structure It highlights crucial liability themes for technology governance provides tools to bridge the gap between regulators and technologists examines jurisdictional approaches to AI regulation in the EU UK USA and Singapore and ultimately suggests a jurisdiction agnostic blueprint for regulation **Applying the Rasch Model** Trevor G. Bond, Christine M. Fox, 2013-11-05 Written in an accessible style this book facilitates a deep understanding of the Rasch model Authors Bond and Fox review the crucial properties of the Rasch model and demonstrate its use with a wide range of examples including the measurement of educational achievement human development attitudes and medical rehabilitation A glossary and numerous illustrations further aid the reader's understanding The authors demonstrate how to apply Rasch analysis and prepare readers to perform their own analyses and interpret the results Updated throughout highlights of the Second Edition include a new CD that features an introductory version of the latest Winsteps program and the data files for the book's examples preprogrammed to run using Winsteps a new chapter on invariance that highlights the parallels between physical and human science measurement a new appendix on analyzing data to help those new to Rasch analysis more explanation of the key concepts and item characteristic curves a new empirical example with data sets demonstrates the many facets of the Rasch model and other new examples and an increased focus on issues related to unidimensionality multidimensionality and the Rasch factor analysis of residuals Applying the Rasch Model is intended for researchers and practitioners in psychology especially developmental psychologists education health care medical rehabilitation business government and those interested in measuring attitude ability and or performance The book is an excellent text for use in courses on advanced research methods measurement or quantitative analysis Significant knowledge of statistics is not required **Impacting Society Positively Through Technology in Accounting and Business Processes** Tankiso Moloi, 2025-05-09 This conference volume



discusses the findings of the iCAB 2024 conference that took place in Sun City South Africa on June 27 28 2024 The University of Johannesburg hosted the iCAB 2024 conference with the aim to bring together researchers from different Accounting and Business Management fields to share ideas and discuss how new disruptive technological developments are impacting the field of accounting The conference was sponsored by the Association of International Certified Professional Accountants AICPA CIMA

*Environmental Risk Assessment* Ted Simon,2014-02-05 The purpose of risk assessment is to support science based decisions about how to solve complex societal problems The problems we face in the twenty first century have many social political and technical complexities Environmental risk assessment in particular is of increasing importance as a means of seeking to address the potential effects of

**Data Action** Sarah Williams,2022-09-20 How to use data as a tool for empowerment rather than oppression Big data can be used for good from tracking disease to exposing human rights violations and for bad implementing surveillance and control Data inevitably represents the ideologies of those who control its use data analytics and algorithms too often exclude women the poor and ethnic groups In Data Action Sarah Williams provides a guide for working with data in more ethical and responsible ways Williams outlines a method that emphasizes collaboration among data scientists policy experts data designers and the public The approach generates policy debates influences civic decisions and informs design to help ensure that the voices of people represented in the data are neither marginalized nor left unheard

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