

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025



Figure 6 is a circuit with a cell  $E$ . The voltmeter is connected with its terminals across the cell.

1. (1 mark each)
- State the readings displayed on each voltmeter.
- Answer these from 2. to 5. in the unit and with the unit to correct dimensional representation.



1. (1 mark)
- State Coulomb's law in words.
2. (2 marks)
- Two identical positively charged spheres A and B are separated by a



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# Physical Science Paper Prelims 2014 Memo

**EW Minium**



## Physical Science Paper Prelims 2014 Memo:

*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 *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 *Economics and Climate Emergency* Barry Gills, Jamie Morgan, 2022-08-22 This book explores a series of connected themes focused on the role economics and other influential forms of theory and thinking have played in creating the current predicament and the scope for alternatives and how they might be framed Thirty years have passed since the inception of the United Nations Framework Convention on Climate Change UNFCCC and the beginning of policy on climate change Thirty wasted years To most politicians long term collective interest has been denominated in meaningless units of time a never and forever that has continually delayed action From complacency has come potential disaster and we are now living in a time of climate emergency and ecological breakdown The next decade is a pivotal period requiring fundamental change But numerous impediments remain Continual material energy and economic growth on a planetary scale are manifestly impossible and yet

economic theory takes these as a given and political leadership and policy seem unwilling to accept brute reality. Instead they offer a series of implausible commitments and pledges rooted in technofixes without addressing the fundamental drivers of the problems the world faces. The edited volume explores the issues and offers a variety of ways to think through the problems at hand from postgrowth degrowth and social ecological economics to policy assemblage and transversalism. The chapters in this book were originally published in the journal *Globalizations*.

*ICEL2015-10th International Conference on e-Learning* Dr Carlton Watson, 2015-06-12. These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25-26 June 2015. ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual advances in the area of e Learning. It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of e Learning available to them. With an initial submission of 91 abstracts, after the double blind peer review process, there are 41 academic Research papers and 2 PhD papers. Research papers published in these Conference Proceedings. These papers come from some many different countries including Australia, Belgium, Brazil, Canada, China, Germany, Greece, Hong Kong, Malaysia, Portugal, Republic of Macedonia, Romania, Slovakia, South Africa, Sweden, United Arab Emirates, UK and the USA. A selection of the best papers, those agreed by a panel of reviewers and the editor, will be published in a conference edition of EJEL, the Electronic Journal of e Learning ([www.ejel.com](http://www.ejel.com)). These will be chosen for their quality of writing and relevance to the Journal's objective of publishing papers that offer new insights or practical help into the application of e Learning.

*Scientific and Technical Aerospace Reports*, 1994. Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

*Dynamic Data-Driven Environmental Systems Science* Sai Ravela, Adrian Sandu, 2015-11-26. This book constitutes the refereed proceedings of the First International Conference on Dynamic Data Driven Environmental Systems Science DyDESS 2014 held in Cambridge MA USA in November 2014. The 24 revised full papers and 7 short papers were carefully reviewed and selected from 62 submissions and cover topics on sensing, imaging and retrieval for the oceans, atmosphere, space, land, earth and planets that is informed by the environmental context, algorithms for modeling and simulation, downscaling, model reduction, data assimilation, uncertainty quantification and statistical learning methodologies for planning and control, sampling and adaptive observation and efficient coupling of these algorithms into information gathering and observing system designs and applications of methodology to environmental estimation, analysis and prediction including climate, natural hazards, oceans, cryosphere, atmosphere, land, space, earth and planets.

*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     Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set) Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events     **The DARPA Model for Transformative Technologies: Perspectives on the U.S.**

**Defense Advanced Research Projects Agency** William Boone Bonvillian,Richard Van Atta,Patrick Windham,2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for Scholars This volume contains a remarkable collection of extremely insightful articles on the world s most successful advanced technology agency Drafted by the leading US experts on DARPA it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume It reviews DARPA s unique role in the U S innovation system as well as the challenges DARPA and its clones face today As the American model is being considered for adoption by a number of countries worldwide this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation Prof Charles Wessner Georgetown University The U S Defense Advanced Research Projects Agency DARPA has played a remarkable role in the creation new transformative technologies revolutionizing defense with drones and precision guided munitions and transforming civilian life with portable GPS receivers voice recognition software self driving cars unmanned aerial vehicles and most famously the ARPANET and its successor the Internet Other parts of the U S Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies But how and why has DARPA succeeded Which features of its operation and environment contribute to this success And what lessons does its experience offer for other U S agencies and other governments that want to develop and demonstrate their own transformative technologies This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency s founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies Informative and insightful this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others

**Early Childhood Studies** Jane Johnston,Lindy Nahmad-Williams,Ruby Oates,Val Wood,2018-02-16 This fully updated new edition offers a comprehensive accessible yet rigorous introduction to the study of Early Childhood that will will add

value to any Early Childhood Studies course at both foundation and degree level Addressing both care and education in the Early Years the book considers a range of multi disciplinary aspects of Early Childhood including health social educational psychological and sociological perspectives Early Childhood Studies engages the reader by providing real world examples that underpin theoretical perspectives and bring examples to life while encouraging practitioners to engage in reflective practice by considering their own similar experiences Key features include Engaging activities and case studies that bring theory to life Cutting edge research Practical tasks and advice with points for further reading End of chapter summaries Reflective Tasks and Study Skills boxes in each chapter Full colour illustrations throughout This core introductory textbook is an indispensable resource for Early Years students and professionals whatever their level of expertise or experience

*Using Film to Understand Childhood and Practice* Sue Aitken, 2018-02-08 Using Film to Understand Childhood and Practice is an innovative and lively text which allows complex and challenging issues within childhood studies to be explored using the medium of filmed drama By utilising popular culture this book provides accessible narratives to students and lecturers needing to engage with complex theoretical ideas In exposing theories to tangible situations often from more than one perspective in films readers are helped to identify and recognise how theories about children and childhood can be applied Each chapter uses a specific film to provide the basis for discussion in order to explore and analyse key concepts within childhood studies which include identity social construction families political and biological narratives children s rights and participation A range of international films are used including Charlie and the Chocolate Factory Rabbit Proof Fence The Hunger Games and The Red Balloon First introducing the theoretical perspective to be discussed chapters also include a contextual explanation of the film and list the specific scenes that will be used to guide students through Concluding with discussion questions students are asked to consider how the theories discussed might be translated in to their own experiences of children childhood and practice Not only supporting understanding of core principles and key ideas across any childhood studies degree this book supports students throughout their university career and beyond by engaging with the journey of becoming a graduate as well as discussion of workplace issues and concepts after graduation

**Embedded System Design** Peter Marwedel, 2021-01-25 A unique feature of this open access textbook is to provide a comprehensive introduction to the fundamental knowledge in embedded systems with applications in cyber physical systems and the Internet of things It starts with an introduction to the field and a survey of specification models and languages for embedded and cyber physical systems It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems including real time operating systems The author also discusses evaluation and validation techniques for embedded systems and provides an overview of techniques for mapping applications to execution platforms including multi core platforms Embedded systems have to operate under tight constraints and hence the book also contains a selected set of optimization techniques including software optimization techniques The book closes

with a brief survey on testing This fourth edition has been updated and revised to reflect new trends and technologies such as the importance of cyber physical systems CPS and the Internet of things IoT the evolution of single core processors to multi core processors and the increased importance of energy efficiency and thermal issues *The Walls around Opportunity* Gary Orfield,2024-04-16 The case for race conscious education policy In our unequal society families of color fully share the dream of college but their children often attend schools that do not prepare them and the higher education system gives the best opportunities to the most privileged Students of color hope for college but often face a dead end For many young people racial inequality puts them at a disadvantage from early childhood The Walls around Opportunity argues that colorblind policies have made college inaccessible to a large share of students of color and reveals how policies that acknowledge racial inequalities and set racial equality goals can succeed where colorblindness has failed Gary Orfield paints a troubling portrait of American higher education explaining how profound racial gaps imbedded in virtually every stage of our children s lives pose a major threat to communities of color and the nation He describes how the 1960s and early 1970s was the only period in history to witness sustained efforts at racial equity in higher education and how the Reagan era ushered in today s colorblind policies which ignore the realities of color inequality Orfield shows how this misguided policy has resegregated public schools exacerbated inequalities in college preparation denied needed financial aid to families and led to huge price increases over decades that have seen little real gain in income for most Americans Now with a new afterword that discusses the 2023 Supreme Court decision to outlaw affirmative action in college admissions this timely and urgent book shows that the court s colorblind ruling is unworkable in a society where every aspect of opportunity and preparation is linked to race and reveals the gaps in the opportunity pipeline while exploring the best ways to address them in light of this decision **Biology-Inspired Engineering and Engineering-Inspired Biology** Jan-Matthias

Braun, Poramate Manoonpong, Xiaofeng Xiong,2021-01-04 *First Do No Harm: Medical Ethics in International Humanitarian Law* Sigrid Mehring,2014-11-27 Although working on the sidelines of armed conflicts physicians are often at the centre of attention First Do No harm Medical Ethics in International Humanitarian Law was born from the occasionally controversial role of physicians in recent armed conflicts and the legal and ethical rules that frame their actions While international humanitarian human rights and criminal law provide a framework of rights and obligations that bind physicians in armed conflicts the reference to medical ethics in the laws of armed conflict adds an extra legal layer In analysing both the legal and the ethical framework for physicians in armed conflict the book is invaluable to practitioners and legal scholars alike **Advanced Logo** Michael Friendly,2014-02-25 Advanced Logo shows how LOGO can be used as a vehicle to promote problem solving skills among secondary students college students and instructors The book demonstrates the wide range of educational domains that can be explored through LOGO including generative grammars physical laws of motion and mechanics artificial intelligence robotics and calculus Tunnel Visions Michael Riordan,Lilian Hoddeson,Arienne W.

Kolb,2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American

Strengthening the Disaster Resilience of the Academic Biomedical Research Community National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Health and Medicine Division,Institute for Laboratory Animal Research,Board on Earth Sciences and Resources,Board on Health Sciences Policy,Committee on Strengthening the Disaster Resilience of Academic Research Communities,2017-11-20 The academic biomedical research community is a hub of employment economic productivity and scientific progress Academic research institutions are drivers of economic development in their local and state economies and by extension the national economy Beyond the economic input that the academic biomedical research community both receives and provides it generates knowledge that in turn affects society in myriad ways The United States has experienced and continues to face the threat of disasters and like all entities the academic biomedical research community can be affected Recent disasters from hurricanes to cyber attacks and their consequences have shown that the investments of the federal government and of the many other entities that sponsor academic research are not uniformly secure First and foremost events that damage biomedical laboratories and the institutions that house them can have impacts on the safety and well being of humans and research animals Furthermore disasters can affect career trajectories scientific progress and financial stability at the individual and institutional levels Strengthening the Disaster Resilience of the Academic Biomedical Research Community offers recommendations and guidance to enhance the disaster resilience of the academic biomedical research community with a special focus on the



potential actions researchers academic research institutions and research sponsors can take to mitigate the impact of future disasters

**Investigating Light and Shadow with Young Children (Ages 3-8)** Beth Dykstra Van Meeteren, 2022-06-17  
Children are intrigued by switches that power a light source and by items that reflect light and sparkle and they take notice of personal shadows cast on the playground An understanding of light and shadow is crucial to many STEM fields including astronomy biology engineering architecture and more This book shows teachers how to engage children ages 3-8 with light and shadow in a playful way building an early foundation for the later more complex study of this phenomena and ultimately for children's interest in professions within the STEM fields The text offers guidance for arranging the physical environment of classrooms integrating literacy learning and investigations and building partnerships with administrators Each volume in the STEM for Our Youngest Learners Series includes examples of educators and children engaging in inquiry learning guidance for selecting materials and arranging the learning environment modifications and accommodations for diverse learners support for establishing adult learning communities and more

**Martian Gullies and their Earth Analogues**  
S.J. Conway, J.L. Carrivick, P.A. Carling, T. de Haas, T.N. Harrison, 2019-01-21  
Gullies on Mars resemble terrestrial gullies involved in the transport of abundant material down steep slopes by liquid water However liquid water should not be stable at the Martian surface The articles in this volume present the two main opposing theories for Martian gully formation climate driven melting of surficial water ice deposits and seasonal dry ice sublimation The evidence presented ranges from remote sensing observations to experimental simulations to comparison with Earth analogues The opposing hypotheses imply either that Mars has been unusually wet in the last few million years or that it has remained a cold dry desert both with profound implications for understanding the water budget of Mars and its habitability The debate questions the limits of remote sensing data and how we interpret active processes on extra terrestrial planetary surfaces even beyond those on Mars as summarized by the review paper at the beginning of the book

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