

PHYSICAL SCIENCES

PAPER 1

MAY-JUNE

MEMO

2025



Figure 1: A circuit is shown in which E , the EMF (12 V) is equal to the voltage across the battery.

1.1 (4 marks)
State the meaning implied by each of the components shown above. Give 2 marks for each of the 4 terms. (4 marks)



- 2.1 (2 marks) Calculate the weight F .
2.2 (2 marks) Calculate the magnitude of F . (4 marks)



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Physical Science Paper Prelims 2014 Memo

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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 *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 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 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 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

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

Tectonic Evolution, Collision, and Seismicity of Southwest Asia Rasoul Sorkhabi, 2017-12-21 Southwest Asia is one of the most remarkable regions on Earth in terms of active faulting and folding large magnitude earthquakes volcanic landscapes petroliferous foreland basins historical civilizations as well as geologic outcrops that display the protracted and complex 540 m.y. stratigraphic record of Earth's Phanerozoic Era Emerged from the birth and demise of the Paleo Tethys and Neo Tethys oceans southwest Asia is currently the locus of ongoing

tectonic collision between the Eurasia Arabia continental plates The region is characterized by the high plateaus of Iran and Anatolia fringed by the lofty ranges of Zagros Alborz Caucasus Taurus and Pontic mountains the region also includes the strategic marine domains of the Persian Gulf Gulf of Oman Caspian and Mediterranean This 19 chapter volume published in honor of Manuel Berberian a preeminent geologist from the region brings together a wealth of new data analyses and frontier research on the geologic evolution collisional tectonics active deformation and historical and modern seismicity of key areas in southwest Asia

Selected Works of Joseph E. Stiglitz Joseph E. Stiglitz, 2019-06-06 This is the third volume in a new definitive six volume edition of the works of Joseph Stiglitz one of today's most distinguished and controversial economists Stiglitz was awarded the Nobel Prize in Economics in 2001 for his work on asymmetric information and is widely acknowledged as one of the pioneers in the field of modern information economics and more generally for his contributions to microeconomics Volume III contains a selection of Joseph E Stiglitz's work on microeconomics It questions well established tenets including many that are so fundamental they are almost taken for granted covering basic concepts of risk and markets the management of risk the theory of the firm the economics of organization and theory of human behaviour Stiglitz reflects on his work and the field more generally throughout the volume by including substantial original introductions to the Selected Works the volume as a whole and each part within the volume

The Sirens of Mars Sarah Stewart Johnson, 2020 Mars was once similar to Earth but today there are no rivers no lakes no oceans Yet multiple spacecraft are circling Mars sweeping over Terra Sabaea Syrtis Major the dunes of Elysium and Mare Sirenum on the brink perhaps of a staggering find Johnson tells the story of how she and other researchers have scoured Mars for signs of life She interlaces her journey as a female scientist with tales of other seekers to offer an unlikely natural history of a place where no human has ever set foot while providing a vivid portrait of our quest to defy our isolation in the cosmos adapted from jacket

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 **PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic and Financial Literacy** OECD,2016-04-19 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills

Physical Science Paper Prelims 2014 Memo Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Physical Science Paper Prelims 2014 Memo**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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web may 24 2023 the package enables you to set environment variables directly within package json in a way that works on all operating systems open your terminal in your project s root directory where your package json file is an install cross env shell with npm npm install cross env or with yarn yarn add cross env

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web all env variables defined in the launch json file will override variables contained in the env file specified by the python envfile setting user or workspace similarly env variables defined in the launch json file will override the environment variables defined in the envfile that are specified in launch json

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web may 1 2016 json does not have notion of environment variables what you can do though is to declare your configuration file as node js module and then you will be able to use your environment variables as follows module exports s3 key process env aws access key id secret

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web convert json text into environment variable equivalents the results would be suitable for setting in a docker container to set or override configuration for example in net core the addenvironmentvariables extension method adds environment variables to the current configuration json

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