

# 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) Calculate the moment of the 2.0 N weight about the fulcrum.  
2.2 (1 mark) Calculate the moment of the 1.0 N weight about the fulcrum.



basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

# Physical Science Paper Exemplar Ond Memo

**Jessica J Manson**



## **Physical Science Paper Exemplar Omd Memo:**

**NASA Technical Memorandum** ,1994      **Scientists in the Classroom** J. Rudolph,2002-05-02 During the 1950s leading American scientists embarked on an unprecedented project to remake high school science education Dissatisfaction with the soft school curriculum of the time advocated by the professional education establishment and concern over the growing technological sophistication of the Soviet Union led government officials to encourage a handful of elite research scientists fresh from their World War II successes to revitalize the nations science curricula In **Scientists in the Classroom** John L Rudolph argues that the Cold War environment long neglected in the history of education literature is crucial to understanding both the reasons for the public acceptance of scientific authority in the field of education and the nature of the curriculum materials that were eventually produced Drawing on a wealth of previously untapped resources from government and university archives Rudolph focuses on the National Science Foundation supported curriculum projects initiated in 1956 What the historical record reveals according to Rudolph is that these materials were designed not just to improve American science education but to advance the professional interest of the American scientific community in the postwar period as well

**Linear Dynamical Systems on Hilbert Spaces: Typical Properties and Explicit Examples** S. Grivaux,É. Matheron,Q. Menet,2021-06-21 We solve a number of questions pertaining to the dynamics of linear operators on Hilbert spaces sometimes by using Baire category arguments and sometimes by constructing explicit examples In particular we prove the following results i A typical hypercyclic operator is not topologically mixing has no eigen values and admits no non trivial invariant measure but is densely distributionally chaotic ii A typical upper triangular operator with coefficients of modulus 1 on the diagonal is ergodic in the Gaussian sense whereas a typical operator of the form diagonal with coefficients of modulus 1 on the diagonal plus backward unilateral weighted shift is ergodic but has only countably many unimodular eigenvalues in particular it is ergodic but not ergodic in the Gaussian sense iii There exist Hilbert space operators which are chaotic and U frequently hypercyclic but not frequently hypercyclic Hilbert space operators which are chaotic and frequently hypercyclic but not ergodic and Hilbert space operators which are chaotic and topologically mixing but not U frequently hypercyclic We complement our results by investigating the descriptive complexity of some natural classes of operators defined by dynamical properties      **The Chemical News : and Journal of Physical Science** ,1871      **Knowledge,**

**Information, and Creativity Support Systems** Thanaruk Theeramunkong,Susumu Kunifuji,Virach

Sornlertlamvanich,Cholwich Nattee,2011-10-21 This book constitutes the thoroughly refereed post conference proceedings of the 5th International Conference on Knowledge Information and Creativity Support Systems KCIS 2010 held in Chang Mai Thailand in November 2010 The 23 revised full papers presented were carefully reviewed and selected from 72 submissions The papers cover a broad range of topics related to all knowledge science related areas including creativity support decision science knowledge science data mining machine learning databases statistics knowledge acquisition automatic scientific

discovery data knowledge visualization and knowledge based systems      *Scientific Papers and Presentations* Martha Davis, Kaaron Joann Davis, Marion Dunagan, 2012-07-27 Davis agronomy Kaaron Davis agricultural food and life sciences and Marion Dunagan business all U of Arkansas offer fledgling scientists advice about the professional communications requirements they will face as graduate students and working scientists They cover many aspects lightly and refer readers to more specialized treatments for greater detail Their topics include organizing and writing a rough draft graduate theses and dissertations publishing data visual aids for presentations and communicating with nonscientists Previous editions were published in 1996 and 2004 Academic Press is an imprint of Elsevier Annotation 2012 Book News Inc Portland OR booknews.com      Resources in Education ,1996-05      Chemical News and Journal of Physical Science William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1913      Chemical News and Journal of Physical Science ,1913      **Educational Times and Journal of the College of Preceptors** ,1908      **The Optician and Scientific Instrument Maker** ,1929

*Keep Watching the Skies!* W. Patrick McCray, 2021-08-10 When the Soviets launched Sputnik in 1957 thousands of ordinary people across the globe seized the opportunity to participate in the start of the Space Age Known as the Moonwatchers these largely forgotten citizen scientists helped professional astronomers by providing critical and otherwise unavailable information about the first satellites In *Keep Watching the Skies* Patrick McCray tells the story of this network of pioneers who fueled by civic pride and exhilarated by space exploration took part in the twentieth century's biggest scientific endeavor Around the world thousands of teenagers homemakers teachers amateur astronomers and other citizens joined Moonwatch teams Despite their diverse backgrounds and nationalities they shared a remarkable faith in the transformative power of science a faith inspired by the Cold War culture in which they lived Against the backdrop of the space race and technological advancement ordinary people developed an unprecedented desire to contribute to scientific knowledge and to investigate their place in the cosmos Using homemade telescopes and other gadgets Moonwatchers witnessed firsthand the astonishing beginning of the Space Age In the process these amateur scientists organized themselves into a worldwide network of satellite spotters that still exists today Drawing on previously unexamined letters photos scrapbooks and interviews *Keep Watching the Skies* recreates a pivotal event from a perspective never before examined that of ordinary people who leaped at a chance to take part in the excitement of space exploration      **Applied Mechanics Reviews** ,1969

*SSC English Topic-wise 48 Solved Papers (2010 - 2019) 3rd Edition* Disha Experts, 2019-10-21      Catalog of Educational Captioned Films/videos for the Deaf ,1990      **Review of Chemical Agent Secondary Waste Disposal and Regulatory Requirements** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review of Chemical Agent Secondary Waste Disposal and Regulatory Requirements, 2007-08-13 Under the direction of the U S Army's Chemical Materials Agency CMA and mandated by Congress the nation is destroying its chemical weapons stockpile Large quantities of secondary waste are being generated in the process and managing these

wastes safely and effectively is a critical part of CMA's weapons disposal program. To assist the CMA, the NRC was asked to examine the environmental and regulatory requirements that secondary waste treatment is subject to and to assess best practices by industry in meeting such requirements for similar facilities. This book presents an overview of secondary wastes from chemical agent disposal facilities, CDF, a comparison of CDF and industry experience, site-specific analysis of major secondary waste issues, an examination of closure wastes, and findings and recommendations.

**The Educational Times,**  
**and Journal of the College of Preceptors**, 1908      U.S. Government Research Reports, 1963      **Memorandum**, 1961  
**Proceedings of the Royal Irish Academy**, 1919

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