

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 purpose of the voltmeter in the circuit diagram.

Answer: To measure the EMF of the cell when the switch is open.



- 2.1 (1 mark)
Calculate the magnitude of the force F .
- 2.2 (2 marks)
Calculate the magnitude of the torque of the force F about the pivot.



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Physical Science Memo November 2013 For Grade 1

David A. Jaffray



Physical Science Memo November 2013 For Grade 1:

World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada David A. Jaffray, 2015-07-13 This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics a tri annual high level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare It provides a unique and important forum to secure a coordinated multileveled global response to the need demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health

Redefining Geek Cassidy Puckett, 2022-04-20 A surprising and deeply researched look at how everyone can develop tech fluency by focusing on five easily developed learning habits Picture a typical computer geek Likely white male and someone you d say has a natural instinct for technology Yet after six years teaching technology classes to first generation low income middle school students in Oakland California Cassidy Puckett has seen firsthand that being good with technology is not something people are born with it s something they learn In *Redefining Geek* she overturns the stereotypes around the digitally savvy and identifies the habits that can help everyone cultivate their inner geek Drawing on observations and interviews with a diverse group of students around the country Puckett zeroes in on five technology learning habits that enable tech savvy teens to learn new technologies a willingness to try and fail management of frustration and boredom use of models and the abilities to use design logic and identify efficiencies In *Redefining Geek* she shows how to measure and build these habits and she demonstrates how many teens historically marginalized in STEM are already using these habits and would benefit from recognition for their talent access to further learning opportunities and support in career pathways She argues that if we can develop recognize and reward these technological learning habits in all kids especially girls and historically marginalized racial and ethnic groups we can address many educational inequities and disparities in STEM Revealing how being good with technology is not about natural ability but habit and persistence *Redefining Geek* speaks to the ongoing conversation on equity in technology education and argues for a more inclusive technology learning experience for all students

Ploughshares and Swords Jayita Sarkar, 2022-07-15 India s nuclear program is often misunderstood as an inward looking endeavor of secretive technocrats In *Ploughshares and Swords* Jayita Sarkar challenges this received wisdom narrating a global story of India s nuclear program during its first forty years The book foregrounds the program s civilian and military features by probing its close relationship with the space program Through nuclear and space technologies India s leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries The politically savvy transnationally connected scientists and engineers who steered the program obtained technologies materials and information through a variety of state and nonstate actors from Europe and North America including both superpowers

They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home The nuclear program became a consensus enforcing device in the name of the nation Ploughshares and Swords is a provocative new history with global implications It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization Thanks to generous funding from the Swiss National Science Foundation the ebook editions of this book are available as Open Access volumes from Cornell Open cornellpress.cornell.edu/cornell-open and other repositories

Knowledge Discovery in Big Data from Astronomy and Earth Observation Petr Skoda,Fathalrahman Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants

Impacts of Marine Litter Luisa Galgani,Ricardo Beiras,Francois Galgani,Cristina Panti,Angel Borja,2019-08-15 *Government Reports Announcements & Index* ,1987-03 Who's who Among Students in American Universities and Colleges Henry Pettus Randall,1973 **Psychology in Everyday Life** David G. Myers,2014-01-20 David Myers briefest introduction to psychology speaks to all students regardless of their background or level of preparedness with no assumptions made in the vocabulary examples or presentation Students of all kinds are comfortable with Myers manageable chapters which include careful connections to associated visuals comparative tables and research based pedagogy For this edition there is something completely new to a Myers text David Myers personally selected new coauthor Nathan DeWall s enthusiasm for teaching and writing about psychological science makes him uniquely suited to join the worlds bestselling psychology textbook author And with about 30 more pages of coverage this edition has become an even stronger and more complete introduction to the science of psychology for courses of all kinds

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Table of Contents Physical Science Memo November 2013 For Grade 1

1. Understanding the eBook Physical Science Memo November 2013 For Grade 1
 - The Rise of Digital Reading Physical Science Memo November 2013 For Grade 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Memo November 2013 For Grade 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science Memo November 2013 For Grade 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Memo November 2013 For Grade 1
 - Personalized Recommendations
 - Physical Science Memo November 2013 For Grade 1 User Reviews and Ratings
 - Physical Science Memo November 2013 For Grade 1 and Bestseller Lists
5. Accessing Physical Science Memo November 2013 For Grade 1 Free and Paid eBooks

- Physical Science Memo November 2013 For Grade 1 Public Domain eBooks
- Physical Science Memo November 2013 For Grade 1 eBook Subscription Services
- Physical Science Memo November 2013 For Grade 1 Budget-Friendly Options
- 6. Navigating Physical Science Memo November 2013 For Grade 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Memo November 2013 For Grade 1 Compatibility with Devices
 - Physical Science Memo November 2013 For Grade 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Memo November 2013 For Grade 1
 - Highlighting and Note-Taking Physical Science Memo November 2013 For Grade 1
 - Interactive Elements Physical Science Memo November 2013 For Grade 1
- 8. Staying Engaged with Physical Science Memo November 2013 For Grade 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Memo November 2013 For Grade 1
- 9. Balancing eBooks and Physical Books Physical Science Memo November 2013 For Grade 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Memo November 2013 For Grade 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Memo November 2013 For Grade 1
 - Setting Reading Goals Physical Science Memo November 2013 For Grade 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Memo November 2013 For Grade 1
 - Fact-Checking eBook Content of Physical Science Memo November 2013 For Grade 1
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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