

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 and the 12 Ω resistor.

1.1 (1 mark)
State the purpose of the voltmeter in the circuit diagram.

Answer: To measure the potential difference across the 12 Ω resistor.



- 2.1 (1 mark)
State the purpose of the beam in the diagram.
- 2.2 (2 marks)
Calculate the magnitude of the force F.



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June Memorandum 2physical Science Paper

Roy MacLeod



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Federal Register ,1983-12-27 **The Chemical News : and Journal of Physical Science** ,1883 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 *Chemical News and Journal of Physical Science* ,1883

Rearming for the Cold War, 1945-1960 Elliott Vanveltner Converse,2012 Book Description The first publication in a multivolume series on the history of the acquisition of major weapon systems by the Department of Defense author Elliott Converse presents a meticulously researched overview of changes in acquisition policies organizations and processes within the United States military establishment during the decade and a half following World War II Many of the changes that shaped the nature and course of weapons research and development production and contracting through the end of the century were instituted between 1945 and 1960 many of the problems that have repeatedly challenged defense policymakers and acquisition professionals also first surfaced during these years This study is the first to combine the histories of the Office of the Secretary of Defense OSD and the military services into one account The volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods History of Acquisition in the Department of Defense: Rearming for the Cold War, 1945-1960 Elliott Vanveltner Converse,2012

History of Acquisition in the Department of Defense, Volume 1 Elliott V. Converse,2012-06-12 This volume is a history of the acquisition of major weapon systems by the United States armed forces from 1945 to 1960 the decade and a half that spanned the Truman and Eisenhower administrations following World War II These instruments of warfare aircraft armored vehicles artillery guided missiles naval vessels and supporting electronic systems when combined with nuclear warheads gave the postwar American military unprecedented deterrent and striking power 1 They were also enormously expensive The

volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods The first roughly coinciding with President Truman s tenure covers the years from the end of World War II through the end of the Korean War in 1953 The second spans the two terms of the Eisenhower presidency from 1953 through early 1961 The year 1953 marked a natural breakpoint between the two periods The Korean War had ended President Eisenhower and his defense team began implementing the New Look a policy and strategy based on nuclear weapons which they believed would provide security and make it possible to reduce military spending The New Look s stress on nuclear weapons along with the deployment of the first operational guided missiles and the rapid advances subsequently made in nuclear and missile technology profoundly influenced acquisition in the services throughout the 1950s and the remainder of the century As used in this study the term acquisition encompasses the activities by which the United States obtains weapons and other equipment In surveying the history of acquisition between 1945 and 1960 this study discusses or refers in passing to many of the hundreds of weapon system programs initiated by the services in that period but it is not a weapons encyclopedia Instead it investigates a few major programs in depth in the belief that such detailed examination best reveals the evolution of acquisition policies organizations and processes and the various forces influencing weapons programs

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Table of Contents June Memorandum 2physical Science Paper

1. Understanding the eBook June Memorandum 2physical Science Paper
 - The Rise of Digital Reading June Memorandum 2physical Science Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying June Memorandum 2physical Science Paper
 - 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 June Memorandum 2physical Science Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from June Memorandum 2physical Science Paper

- Personalized Recommendations
- June Memorandum 2physical Science Paper User Reviews and Ratings
- June Memorandum 2physical Science Paper and Bestseller Lists
- 5. Accessing June Memorandum 2physical Science Paper Free and Paid eBooks
 - June Memorandum 2physical Science Paper Public Domain eBooks
 - June Memorandum 2physical Science Paper eBook Subscription Services
 - June Memorandum 2physical Science Paper Budget-Friendly Options
- 6. Navigating June Memorandum 2physical Science Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - June Memorandum 2physical Science Paper Compatibility with Devices
 - June Memorandum 2physical Science Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June Memorandum 2physical Science Paper
 - Highlighting and Note-Taking June Memorandum 2physical Science Paper
 - Interactive Elements June Memorandum 2physical Science Paper
- 8. Staying Engaged with June Memorandum 2physical Science Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June Memorandum 2physical Science Paper
- 9. Balancing eBooks and Physical Books June Memorandum 2physical Science Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June Memorandum 2physical Science Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine June Memorandum 2physical Science Paper
 - Setting Reading Goals June Memorandum 2physical Science Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June Memorandum 2physical Science Paper

- Fact-Checking eBook Content of June Memorandum 2physical Science Paper
- 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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