



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

(QUESTION 5 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 2.0 m/s. See the diagram below.



- 5.1 Define the term non-conservative force.
- 5.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 5.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (4)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% of the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 5.4 Calculate the distance from point A to point B. (5)

(14)

Memorandum For Physics Grade November 2013

Memorandum

Petr Skoda, Fathalrahman Adam



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75 Years Aloft: Royal Australian Air Force Air Training Corps: Australian Air Force Cadets, 1941-2016 Matthew Glozier, 2015-12-30 This book celebrates 75 years of Air Force cadet activity in Australia 1941 2016 The organisation has had a tremendous impact upon the lives of tens of thousands of Australians over our 75 year history Since 1982 it has enhanced the lives of young women as well as men The book begins in WWII with the need to pre train capable and committed keen lads Over 30 000 Australian boys were air cadets 1941 1945 with almost 13 000 going on to active service in the war Air Force cadets survived into peacetime to become an aviation focussed youth development organisation providing flying training in a military atmosphere with the aim of inspiring cadets to join the RAAF There are currently over 8 000 Air Force cadets and adult staff around Australia Aviation centred youth development in a RAAF service environment remains our central focus

Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

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

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

Knowledge Discovery in Big Data from Astronomy and Earth Observation Petr Skoda,Fathalrahman Adam,2020-04-10 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 Addresses both astronomy and geosciences in parallel from a big data perspective Includes introductory information key principles applications and the latest techniques Well supported by computing and information science oriented chapters to introduce the necessary knowledge in these fields Christian Advocate ,1907 *Engineering News-record* ,1894 *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House

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Table of Contents Memorandum For Physics Grade November 2013 Memorandum

1. Understanding the eBook Memorandum For Physics Grade November 2013 Memorandum
 - The Rise of Digital Reading Memorandum For Physics Grade November 2013 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum For Physics Grade November 2013 Memorandum
 - 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 Memorandum For Physics Grade November 2013 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum For Physics Grade November 2013 Memorandum
 - Personalized Recommendations

- Memorandum For Physics Grade November 2013 Memorandum User Reviews and Ratings
- Memorandum For Physics Grade November 2013 Memorandum and Bestseller Lists
- 5. Accessing Memorandum For Physics Grade November 2013 Memorandum Free and Paid eBooks
 - Memorandum For Physics Grade November 2013 Memorandum Public Domain eBooks
 - Memorandum For Physics Grade November 2013 Memorandum eBook Subscription Services
 - Memorandum For Physics Grade November 2013 Memorandum Budget-Friendly Options
- 6. Navigating Memorandum For Physics Grade November 2013 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Memorandum For Physics Grade November 2013 Memorandum Compatibility with Devices
 - Memorandum For Physics Grade November 2013 Memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memorandum For Physics Grade November 2013 Memorandum
 - Highlighting and Note-Taking Memorandum For Physics Grade November 2013 Memorandum
 - Interactive Elements Memorandum For Physics Grade November 2013 Memorandum
- 8. Staying Engaged with Memorandum For Physics Grade November 2013 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memorandum For Physics Grade November 2013 Memorandum
- 9. Balancing eBooks and Physical Books Memorandum For Physics Grade November 2013 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memorandum For Physics Grade November 2013 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Memorandum For Physics Grade November 2013 Memorandum
 - Setting Reading Goals Memorandum For Physics Grade November 2013 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Memorandum For Physics Grade November 2013 Memorandum
 - Fact-Checking eBook Content of Memorandum For Physics Grade November 2013 Memorandum

- 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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in a nutshell an electrical plan is a visual representation that shows how the wiring of a house should be installed so all the

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