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REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

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

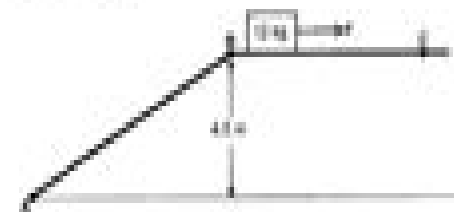
(QUESTION 6 (Start on a new page.)

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 3.00 m/s. See the diagram below.



- 6.1 Define the term non-conservative force.
- 6.2 Draw a labelled free-body diagram for the block when it is pulled up the incline plane.
- 6.3 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% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

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

(10)

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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 *Knowledge Discovery in Big Data from Astronomy and Earth Observation* Petr Skoda, Fathallahman 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 *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 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons, 2012

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In the Shadow of the Bomb S. S. Schweber, 2013-10-31 How two charismatic exceptionally talented physicists came to terms with the nuclear weapons they helped to create In 1945 the United States dropped the bomb and physicists were forced to contemplate disquieting questions about their roles and responsibilities When the Cold War followed they were confronted with political demands for their loyalty and McCarthyism's threats to academic freedom By examining how J Robert Oppenheimer and Hans A Bethe two men with similar backgrounds but divergent aspirations and characters struggled with these moral dilemmas one of our foremost historians of physics tells the story of modern physics the development of atomic weapons and the Cold War Oppenheimer and Bethe led parallel lives Both received liberal educations that emphasized moral as well as intellectual growth Both were outstanding theoreticians who worked on the atom bomb at Los Alamos Both advised the government on nuclear issues and both resisted the development of the hydrogen bomb Both were in their youth sympathetic to liberal causes and both were later called to defend the United States against Soviet communism and colleagues against anti Communist crusaders Finally both prized scientific community as a salve to the apparent failure of Enlightenment values Yet their responses to the use of the atom bomb the testing of the hydrogen bomb and the treachery of domestic politics differed markedly Bethe who drew confidence from scientific achievement and integration into the physics community preserved a deep integrity By accepting a modest role he continued to influence policy and contributed to the nuclear test ban treaty of 1963 In contrast Oppenheimer first embodied a new scientific persona the scientist who creates knowledge and technology affecting all humanity and boldly addresses their impact and then could not carry its burden His desire to retain insider status combined with his isolation from creative work and collegial scientific community led him to compromise principles and ironically to lose prestige and fall victim to other insiders S S Schweber draws on his vast knowledge of science and its history in addition to his unique access to the personalities involved to tell a tale of two men that will enthrall readers interested in science history and the lives and minds of great thinkers The Idea Factory Jon Gertner, 2013-02-26 The definitive history of America's greatest incubator of innovation

and the birthplace of some of the 20th century's most influential technologies. Filled with colorful characters and inspiring lessons, *The Idea Factory* explores one of the most critical issues of our time: What causes innovation? Walter Isaacson, *New York Times* Book Review, Compelling. Gertner's book offers fascinating evidence for those seeking to understand how a society should best invest its research resources. *The Wall Street Journal*: From its beginnings in the 1920s until its demise in the 1980s, Bell Labs, officially the research and development wing of AT&T, was the biggest and arguably the best laboratory for new ideas in the world. From the transistor to the laser, from digital communications to cellular telephony, it's hard to find an aspect of modern life that hasn't been touched by Bell Labs. In *The Idea Factory*, Jon Gertner traces the origins of some of the twentieth century's most important inventions and delivers a riveting and heretofore untold chapter of American history. At its heart, this is a story about the life and work of a small group of brilliant and eccentric men: Mervin Kelly, Bill Shockley, Claude Shannon, John Pierce, and Bill Baker, who spent their careers at Bell Labs. Today, when the drive to invent has become a mantra, Bell Labs offers us a way to enrich our understanding of the challenges and solutions to technological innovation. Here, after all, was where the foundational ideas on the management of innovation were born.

Aeronautical Engineering Index, 1951 [Aerospace Engineering Index](#), 1951 *Making Waves* M Goss, 2013-07-10

This book is an abbreviated, partly re-written version of *Under the Radar: The First Woman in Radio Astronomy* by Ruby Payne Scott. It addresses a general readership interested in historical and sociological aspects of astronomy and presents the biography of Ruby Payne Scott, 1912-1981. As the first female radio astronomer and one of the first people in the world to consider radio astronomy, she made classic contributions to solar radio physics. She also played a major role in the design of the Australian government's Council for Scientific and Industrial Research radars, which were of vital importance in the Southwest Pacific Theatre in World War II. These radars were used by military personnel from Australia, the United States, and New Zealand. From a sociological perspective, her career offers many examples of the perils of being a female academic in the first half of the 20th century. Written in an engaging style and complemented by many historical photographs, this book offers fascinating insights into the beginnings of radio astronomy and the role of a pioneering woman in astronomy. To set the scene, the first colourfully illustrated chapter presents an overview of solar astrophysics and the tools of the radio astronomer. From the reviews of *Under the Radar*: This is a beautifully researched, copiously illustrated, and well-written book that tells us much more than the life of one amazing female radio astronomer. It also provides a profile on radar developments during WWII and on Australia's pre-eminent place in solar radio astronomy in the years following WWII. *Under the Radar* is compelling reading, and if you have taken the time to read right through this review, then it certainly belongs on your bookshelf. Wayne Orchiston, *Journal of Astronomical History and Heritage*, March 2010.

[Government Reports Announcements & Index](#), 1986-06 **Merrill Physical Science** Richard G. Smith, 1993

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grade November 2013 Physics Pmemorandam**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Grade November 2013 Physics Pmemorandam

1. Understanding the eBook Grade November 2013 Physics Pmemorandam
 - The Rise of Digital Reading Grade November 2013 Physics Pmemorandam
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade November 2013 Physics Pmemorandam
 - 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 Grade November 2013 Physics Pmemorandam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade November 2013 Physics Pmemorandam
 - Personalized Recommendations
 - Grade November 2013 Physics Pmemorandam User Reviews and Ratings
 - Grade November 2013 Physics Pmemorandam and Bestseller Lists

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