



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 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.
- 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. (5)

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)

Memorandum For Physic Paper1 Nnovember 2014

Pascal Lambrechts, Ismar Volić



Memorandum For Physic Paper1 Nnovenber 2014:

Quantum Legacies David Kaiser, 2022-06-16 Physicists have grappled with quantum theory for over a century. They have learned to wring precise answers from the theory's governing equations and no experiment to date has found compelling evidence to contradict it. Even so, the conceptual apparatus remains stubbornly famously bizarre. Physicists have tackled these conceptual uncertainties while navigating still larger ones: the rise of fascism, cataclysmic world wars, and a new nuclear age; an unsteady Cold War stand off and its unexpected end. Quantum Legacies introduces readers to physics' still-unfolding quest by treating iconic moments of discovery and debate among well-known figures like Albert Einstein, Erwin Schrödinger, and Stephen Hawking, and many others whose contributions have indelibly shaped our understanding of nature. Tunnel Visions Michael Riordan, Lilian Hoddeson, Arienne W. Kolb, 2015-11-20 A detailed and engaging account of the development of the superconducting supercollider, one of the largest scientific undertakings in the United States. Journal of American History Starting in the 1950s, US physicists dominated the search for elementary particles, aided by the association of this research with national security; they held this position for decades. In an effort to maintain their hegemony and track down the elusive Higgs boson, they convinced President Reagan and Congress to support construction of the multibillion-dollar Superconducting Super Collider project in Texas, the largest basic science project ever attempted. But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars, Congress terminated the project in October 1993. Drawing on extensive archival research, contemporaneous press accounts, and over one hundred interviews with scientists, engineers, government officials, and others involved, Tunnel Visions tells the riveting story of the aborted SSC project. The authors examine the complex interrelated causes for its demise, including problems of large project management, continuing cost overruns, and lack of foreign contributions. In doing so, they ask whether Big Science has become too large and expensive, including whether academic scientists and their government overseers can effectively manage such an enormous undertaking. Focusing on the scientific, technical, and political conflicts that led to delays, ever-rising costs, and eventually the SSC's cancellation by Congress, Tunnel Visions is a true techno-thriller. Burton Richter, winner of the Nobel Prize in Physics. Most good science stories are tales of discovery and success, but failure can be just as riveting. Here, two historians and an archivist describe the greatest particle physics experiment that never was. Scientific American Spacecraft Dynamics and Control Enrico Canuto, Carlo Novara, Donato Carlucci, Carlos Perez-Montenegro, Luca Massotti, 2018-03-08 Spacecraft Dynamics and Control The Embedded Model Control Approach provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model-based control, using state-space equations as the key paradigm for simulation, design, and implementation. The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems. The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment. The model is compelled to include disturbance dynamics as a repository of the

uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class The source of the real time uncertainty estimation prediction is the model error signal as it encodes the residual discrepancies between spacecraft measurements and model output The embedded model and the uncertainty estimation feedback noise estimator in the book constitute the state predictor feeding the control law Asymptotic pole placement exploiting the asymptotes of closed loop transfer functions is the way to design and tune feedback loops around the embedded model state predictor control law reference generator The design versus the uncertainty class is driven by analytic stability and performance inequalities The method is applied to several attitude and orbit control problems The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes state space dynamics and Embedded Model Control Fundamentals of orbit attitude and environment dynamics are treated giving emphasis to state space formulation disturbance dynamics state feedback and prediction closed loop stability Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors Numerical tables are included and their data employed for numerical simulations Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations The suite of the attitude control modes of a GOCE like mission is designed and simulated around the so called mission state predictor Solved and unsolved exercises are included within the text and not separated at the end of chapters for better understanding training and application Simulated results and their graphical plots are developed through MATLAB Simulink code

Fluid Mechanics and Hydraulics Vedat Batu, 2024-05-27 Fluid Mechanics and Hydraulics Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics

Half-Life Frank Close, 2015-02-03 It was at the height of the Cold War in the summer of 1950 when Bruno Pontecorvo mysteriously vanished behind the Iron Curtain Who was he and what caused him to disappear Was he simply a physicist or also a spy and communist radical A protege of Enrico Fermi Pontecorvo was one of the most promising nuclear physicists in the world He spent years hunting for the Higgs boson of his day the neutrino a nearly massless particle thought to be essential to the process of particle decay His work on the Manhattan Project helped to usher in the nuclear age and confirmed his reputation as a brilliant physicist Why then would he disappear as he stood on the cusp of true greatness perhaps even the Nobel Prize In *Half Life* physicist and historian Frank Close offers a heretofore untold history of Pontecorvo's life based on unprecedented access to Pontecorvo's

friends and family and the Russian scientists with whom he would later work Close takes a microscope to Pontecorvo's life combining a thorough biography of one of the most important scientists of the twentieth century with the drama of Cold War espionage With all the elements of a Cold War thriller classified atomic research an infamous double agent a possible kidnapping by Soviet operatives *Half Life* is a history of nuclear physics at perhaps its most powerful when it created the bomb Physics at perhaps its most powerful when it created the bomb Law, Death, and Robots Keri Grieman, 2024-10-17 Can the law keep up with AI This book examines liability and regulation for artificial intelligence causing serious physical harm both now and in the future While AI moves quickly regulation follows more slowly an increasing problem for an evolutionary fast paced emerging technology AI has the potential to save lives but in doing so will have the potential to take them as well How do we future proof law and regulation to incentivise life saving innovation as safely as possible This book details how to regulate AI in high risk civil applications for example automated vehicles and medicine addressing both liability and regulatory structure It highlights crucial liability themes for technology governance provides tools to bridge the gap between regulators and technologists examines jurisdictional approaches to AI regulation in the EU UK USA and Singapore and ultimately suggests a jurisdiction agnostic blueprint for regulation Remote Sensing Floyd F. Sabins, Jr., James M. Ellis, 2020-04-01 Remote sensing has undergone profound changes over the past two decades as GPS GIS and sensor advances have significantly expanded the user community and availability of images New tools such as automation cloud based services drones and artificial intelligence continue to expand and enhance the discipline Along with comprehensive coverage and clarity Sabins and Ellis establish a solid foundation for the insightful use of remote sensing with an emphasis on principles and a focus on sensor technology and image acquisition The Fourth Edition presents a valuable discussion of the growing and permeating use of technologies such as drones and manned aircraft imaging DEMs and lidar The authors explain the scientific and societal impacts of remote sensing review digital image processing and GIS provide case histories from areas around the globe and describe practical applications of remote sensing to the environment renewable and nonrenewable resources land use land cover natural hazards and climate change Remote Sensing Digital Database includes 27 examples of satellite and airborne imagery that can be used to jumpstart labs and class projects The database includes descriptions georeferenced images DEMs maps and metadata Users can display process and interpret images with open source and commercial image processing and GIS software Flexible revealing and instructive the Digital Image Processing Lab Manual provides 12 step by step exercises on the following topics an introduction to ENVI Landsat multispectral processing image processing band ratios and principal components georeferencing DEMs and lidar IHS and image sharpening unsupervised classification supervised classification hyperspectral and change detection and radar Introductory and instructional videos describe and guide users on ways to access and utilize the Remote Sensing Digital Database and the Digital Image Processing Lab Manual Answer Keys are available for instructors for questions in the text as

well as the Digital Image Processing Lab Manual

Applications of Data Assimilation and Inverse Problems in the

Earth Sciences Alik Ismail-Zadeh, Fabio Castelli, Dylan Jones, Sabrina Sanchez, 2023-07-06 Many contemporary problems within the Earth sciences are complex and require an interdisciplinary approach This book provides a comprehensive reference on data assimilation and inverse problems as well as their applications across a broad range of geophysical disciplines With contributions from world leading researchers it covers basic knowledge about geophysical inversions and data assimilation and discusses a range of important research issues and applications in atmospheric and cryospheric sciences hydrology geochronology geodesy geodynamics geomagnetism gravity near Earth electron radiation seismology and volcanology Highlighting the importance of research in data assimilation for understanding dynamical processes of the Earth and its space environment and for predictability it summarizes relevant new advances in data assimilation and inverse problems related to different geophysical fields Covering both theory and practical applications it is an ideal reference for researchers and graduate students within the geosciences who are interested in inverse problems data assimilation predictability and numerical methods

A History of UNESCO Poul Duedahl, 2016-04-12 The mission UNESCO as defined just after the end of World War II is to build the defenses of peace in the minds of men In this book historians trace the routes of selected UNESCO mental engineering initiatives from its headquarters in Paris to the member states to assess UNESCO's global impact

Reading Dylan Thomas Edward Allen, 2018-11-14 Reading Dylan Thomas attends in detail to the problems and pleasures of deciphering Thomas in the twenty first century teasing out his debts and effects tracing his influence on later artists and suggesting ways to understand his own idiosyncratic reading practices

Resources in Education, 1984 **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

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. CERN Courier, 2015. **Roadmapping Future**, Tuğrul U. Daim, 2021-03-16. This volume presents a portfolio of cases and applications on technology roadmapping (TRM) for products and services. It provides a brief overview on criteria or metrics used for evaluating the success level of TRM and then offers six case examples from sectors such as transportation, smart technologies, and household electronics. A new innovation in this book is a section of detailed technology roadmap samples that technology managers can apply to emerging technologies. **Dalla pirateria dei libri all'editoria predatoria**, Rossana Morriello, 2023-02-07. opinione diffusa che alcune delle problematiche che caratterizzano l'odierna comunicazione scientifica abbiano radici recenti. Non di rado si considerano questioni quali l'editoria predatoria o gli episodi di violazione di etica e integrità della ricerca come conseguenza della diffusione dell'editoria digitale soprattutto ad accesso aperto. In realtà, sebbene l'open access possa in certe condizioni aumentare il rischio di incorrere in comportamenti illeciti o eticamente scorretti, rendere accessibili liberamente i risultati della ricerca accresce la visibilità e la circolazione delle pubblicazioni. Non solo si agevola anche il rilevamento dei casi di distorsione che altrimenti sarebbero più difficili da individuare. Fenomeni quali le riviste e le conferenze predatorie, i paper mills che fabbricano articoli scientifici, gli zombie papers che risorgono dalle ceneri della malascienza e le molte altre criticità relative all'etica e all'integrità della ricerca scientifica sono in aumento ma al contempo sono divenute più evidenti grazie alle potenzialità delle tecnologie. Il libro traccia e descrive le pratiche dannose nella comunicazione scientifica che oggi ne minano la credibilità ma getta anche lo sguardo indietro per mettere in luce le linee di continuità con quanto accaduto nei secoli passati. L'intreccio tra le vicende di storia della stampa, le sollecitazioni della pirateria libraria e il dibattito sulla libertà intellettuale che condusse alla nascita della prima legge sul copyright e, infine, gli illuministi, torna ad essere cruciale ai nostri giorni configurandosi come un probabile

stato di transizione verso un nuovo paradigma **Formality of the Little N -disks Operad** Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich s proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when **U.S. Government Research & Development Reports** ,1968-11 **The Journal of Biolaw & Business** ,2004 Woodrow Wilson Edwin A. Weinstein, 2014-07-14 Throughout this narrative the author combines the historical material with an expert understanding of Wilson s ailments to point out ways in which the state of his health changed the course of national and international events Originally published in 1981 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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