



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.

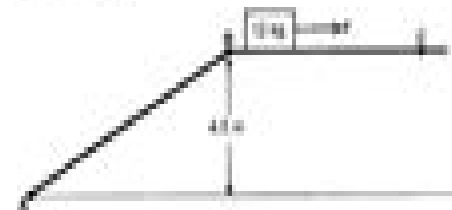
(QUESTION 6 (Start on a new page.)

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 2.0 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)

Memorandum Physics Paper 1 2014 June Paper

**Enrico Canuto, Carlo Novara, Donato
Carlucci, Carlos Perez-
Montenegro, Luca Massotti**



Memorandum Physics Paper 1 2014 June Paper:

REIC Memorandum Battelle Memorial Institute. Radiation Effects Information Center, 1961 **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 infervorì gli illuministi torna ad essere cruciale ai nostri giorni configurandosi come un probabile stato di transizione verso un nuovo paradigma Language, Life, Limits Arnold Beckmann, Ersébet Csuhaj-Varjú, Klaus Meer, 2014-06-05 This book constitutes the refereed proceedings of the 10th Conference on Computability in Europe CiE 2014 held in Budapest Hungary in June 2014 The 42 revised papers presented were carefully reviewed and selected from 78 submissions and included together with 15 invited papers in this proceedings The conference had six special sessions computational linguistics bio inspired computation history and philosophy of computing computability theory online algorithms and complexity in automata theory Tunnel Visions Michael Riordan, Lilian Hodgeson, Arianne 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 cancelation 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

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2023-01-29 This volume presents modern trends in the area of symmetries and their applications based on contributions to the Workshop Lie Theory and Its Applications in Physics held in

Sofia Bulgaria on line in June 2021 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i e representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators special functions and others Furthermore the necessary tools from functional analysis are included This is a big interdisciplinary and interrelated field The topics covered in this Volume are the most modern trends in the field of the Workshop Representation Theory Symmetries in String Theories Symmetries in Gravity Theories Supergravity Conformal Field Theory Integrable Systems Quantum Computing and Deep Learning Entanglement Applications to Quantum Theory Exceptional quantum algebra for the standard model of particle physics Gauge Theories and Applications Structures on Lie Groups and Lie Algebras This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory

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

Storytelling Organizational Practices David M. Boje, 2014-06-20 Once upon a time the practice of storytelling was about collecting interesting stories about the past and converting them into soundbite pitches Now it is more about foretelling the ways the future is approaching the present prompting a re storytelling of the past Storytelling has progressed and is about a diversity of voices not just one teller of one past it is how a group or organization of people negotiates the telling of history and the telling of what future is arriving in the present With the changes in storytelling practices and theory there is a growing need to look at new and different methodologies Within this exciting new book David M Boje develops new ways to ask questions in interviews and make observations of practice that are about storytelling the future This after all is where management practice concentrates its storytelling while much of the theory and method work is all about how the past might recur in the future Storytelling Organizational Practices takes the reader on a journey from looking at narratives of past experience through looking at living stories of emergence in the present to looking

at how the future is arriving in ways that prompts a re-storying of the past

Molten Salt Reactors and Thorium Energy Thomas James Dolan, Imre Pazsit, Andrei Rykhlevskii, Ritsuo Yoshioka, 2024-01-25 Molten Salt Reactors and Thorium Energy Second Edition is a fully updated comprehensive reference on the latest advances in MSR research and technology Building on the successful first edition Tom Dolan and the team of experts have fully updated the content to reflect the impressive advances from the last 5 years ensuring this book continues to be the go to reference on the topic This new edition covers progress made in MSR design details innovative experiments and includes molten salt data corrosion studies and deployment plans The successful case studies section of the first edition have been removed expanded and fully updated and are now published in a companion title called Global Case Studies on Molten Salt Reactors Readers will gain a deep understanding of the advantages and challenges of MSR development and thorium fuel use as well as step by step guidance on the latest in MSR reactor design Each chapter provides a clear introduction covers technical issues and includes examples and conclusions while promoting the sustainability benefits throughout A fully updated comprehensive handbook on Molten Salt Reactors and Thorium Energy written by a team of global experts Covers MSR applications technical issues reactor types and reactor designs Includes 3 brand new chapters which reflect the latest advances in research and technology since the first edition published Presents case studies on molten salt reactors which aid in the transition to net zero by providing abundant clean safe energy to complement wind and solar power

Equivalence Amanda L. Golbeck, 2017-04-28 Equivalence Elizabeth L. Scott at Berkeley is the compelling story of one pioneering statistician's relentless twenty year effort to promote the status of women in academe and science Part biography and part microhistory the book provides the context and background to understand Scott's masterfulness at using statistics to help solve societal problems In addition to being one of the first researchers to work at the interface of astronomy and statistics and an early practitioner of statistics using high speed computers Scott worked on an impressively broad range of questions in science from whether cloud seeding actually works to whether ozone depletion causes skin cancer Later in her career Scott became swept up in the academic women's movement She used her well developed scientific research skills together with the advocacy skills she had honed in such activities as raising funds for Martin Luther King Jr and keeping Free Speech Movement students out of jail toward policy making that would improve the condition of the academic workforce for women The book invites the reader into Scott's universe a window of inspiration made possible by the fact that she saved and dated every piece of paper that came across her desk

Low Temperature Properties of Selected Materials Dorothea M. Johnson, 1977 This report is a bibliography of the work reported in the literature on the effects of low temperature on the properties of structural materials Some of the newer areas of cryogenic technology such as superconducting machinery involve environments which may subject the components to temperature as low as 4 K Exposure of structural materials to such low temperatures affects their properties This bibliography contains 963 references published between 1950-1976 arranged in chronological alphabetical order

Combined material property indexes are provided Author *Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)* Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events [Selected Works of Joseph E. Stiglitz](#) Joseph E. Stiglitz, 2019-06-06 This is the third volume in a new definitive six volume edition of the works of Joseph Stiglitz one of today's most distinguished and controversial economists Stiglitz was awarded the Nobel Prize in Economics in 2001 for his work on asymmetric information and is widely acknowledged as one of the pioneers in the field of modern information economics and more generally for his contributions to microeconomics Volume III contains a selection of Joseph E Stiglitz's work on microeconomics It questions well established tenets including many that are so fundamental they are almost taken for granted covering basic concepts of risk and markets the management of risk the theory of the firm the economics of organization and theory of human behaviour Stiglitz reflects on his work and the field more generally throughout the volume by including substantial original introductions to the Selected Works the volume as a whole and each part within the volume **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 **Handbook of Space Resources** Viorel Badescu, Kris Zacny, Yoseph Bar-Cohen, 2023-04-27 Earth has limited material and energy resources while these resources are virtually unlimited in space It is only a matter of time before planetary resources are mined and used in situ to sustain human and robotic exploration or returned to Earth for commercial gain This book covers a number of aspects related to space resources In particular subjects related to mission concepts exploration approaches mining and extraction technologies commercial potential and regulatory aspects of space resources are covered in detail This book is therefore a good resource for readers who seek background and deeper understanding of space resources related activities **The Oxford Handbook**

of Nuclear Security ,2024-07-12 The Oxford Handbook of Nuclear Security provides a comprehensive examination of efforts to secure sensitive nuclear assets and mitigate the risk of nuclear terrorism and other non state actor threats It aims to provide the reader with a holistic understanding of nuclear security through exploring its legal political and technical dimensions at the international national and organizational levels Recognizing there is no one size fits all approach to nuclear security the book explores fundamental elements and concepts in practice through a number of case studies which showcase how and why national and organizational approaches have diverged Although focused on critiquing past and current activities unexplored yet crucial aspects of nuclear security are also considered and how gaps in international efforts might be filled Contributors to the handbook are drawn from a variety of different disciplinary backgrounds and experiences to provide a wide range of perspectives on nuclear security issues and move beyond the Western narratives that have tended to dominate the debate These include scholars from both developed and developing nuclear countries as well as practitioners working in the field of nuclear security in an effort to bridge the gap between theory and practice

The Path to 5G in the Developing World World Bank,2024-06-25 The global race for implementing 5G mobile technologies has seen countries riding a new wave of wireless technologies 5G the next generation of mobile technologies can enable a significantly higher level of performance over 4G mobile communications providing a new layer of connectivity to support innovative data intensive applications With the estimated impact of 5G on global gross domestic product to be in the trillions of US dollars 5G s deployment will drive innovation job creation worker productivity and competitiveness across various sectors Several use cases are already being tested and deployment is under way in many countries For some countries 5G may seem a distant future prospect given the costs of infrastructure deployment and the need for expensive handsets for other countries 5G is an on ramp to Industry 4 0 and has been folded into national strategy planning 5G trials pilots and commercial deployments have been progressing around the world but most deployments are in higher income countries Significant barriers remain for developing countries many of which pertain to the challenges faced by the broader telecommunications sector and all of which threaten to further widen the digital divide and limit access to the economic opportunities that 5G connectivity enables What does this reality mean for developing countries and how can national governments prepare The Path to 5G in the Developing World Planning Ahead for a Smooth Transition surveys the technical capabilities of 5G and explores how countries can reach connectivity goals by using 5G as a layer of connectivity along with 4G and other technologies This report also provides a guide for policy makers to better understand the opportunities challenges and risks posed by 5G so that they can plan for a policy and regulatory ecosystem that supports the path to advanced mobile network deployment access and adoption

Heretic's Guide To Management Paul Culmsee,2016-07-07 Management techniques such as strategic planning project management or operational budgeting aim to reduce ambiguity and provide clarity So it is one of the great ironies of modern corporate life that these techniques often end up doing the opposite increasing ambiguity rather

than reducing it. It is easy enough to understand why organizations are complex entities and it is unreasonable to expect management models such as those that fit neatly into a 2x2 matrix or a predetermined checklist to work in the real world. Indeed, expecting them to work as advertised is akin to colouring a paint by numbers Mona Lisa with the expectation of recreating Da Vinci's masterpiece. Ambiguity has not been tamed; reality will still impose itself no matter how alluring the model is. Unfortunately, most of us have a deep aversion to situations that involve even a hint of ambiguity. Recent research in neuroscience has revealed the reason for this: ambiguity is processed in the parts of the brain which regulate our emotional responses. As a result, many people associate ambiguity with feelings of anxiety. When kids feel anxious, they turn to transitional objects such as teddy bears or security blankets, providing them with a sense of stability when situations or events seem overwhelming. We contend that as grown-ups, we don't actually stop using teddy bears; they take a different form. Backed by research, we illustrate that management models, fads and frameworks are akin to teddy bears. They provide the same sense of comfort and certainty to corporate managers and minions as real teddies do to distressed kids. This is not a problem in many cases. Children usually outgrow their need for a teddy unless, if development is disrupted or arrested in some way. If this happens, the transitional object can become a fetish, an object that is held on to with a pathological intensity simply for the comfort that it offers in the face of ambiguity. The corporate reliance on simplistic solutions for the complex challenges faced is akin to little Johnny believing that everything will be OK provided he clings on to Teddy. Ambiguity is a primal force that drives much of our behaviour. It is typically viewed negatively, something to be avoided or to be controlled. The truth, however, is that it is a force that can be used in positive ways too. The Force that gave the Dark Side their power in the Star Wars movies was harnessed by the Jedi in positive ways. Similarly, this new management book shows how ambiguous situations so common in the corporate world are processed by the brain and the behaviours that often arise as a consequence. More importantly, though, it shows you how to harness that ambiguity to achieve outstanding results.

Science Teaching in Schools Great Britain: Parliament: House of Lords: Science and Technology Committee, 2006-11-05. The Committee's report examines science and mathematics teaching in secondary schools in England, focusing on the following issues: the take-up of science and mathematics at GCSE and A level; the provision of careers advice to students; problems in the recruitment and retention of teachers; the quality of teaching methods; and the role of continuing professional development. The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond. It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma-based system for 14-19 year old students based on the International Baccalaureate. This would ensure that students receive a more rounded education and are not made to over-specialise before they are able to see the merits of studying science and

mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools **Separation of Flow**

Paul K. Chang, 2014-06-28 Interdisciplinary and Advanced Topics in Science and Engineering Volume 3 Separation of Flow presents the problem of the separation of fluid flow This book provides information covering the fields of basic physical processes analyses and experiments concerning flow separation Organized into 12 chapters this volume begins with an overview of the flow separation on the body surface as discusses in various classical examples This text then examines the analytical and experimental results of the laminar boundary layer of steady two dimensional flows in the subsonic speed range Other chapters consider the study of flow separation on the two dimensional body flow separation on three dimensional body shape and particularly on bodies of revolution This book discusses as well the analytical solutions of the unsteady flow separation The final chapter deals with the purpose of separation flow control to raise efficiency or to enhance the performance of vehicles and fluid machineries involving various engineering applications This book is a valuable resource for engineers

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