



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.



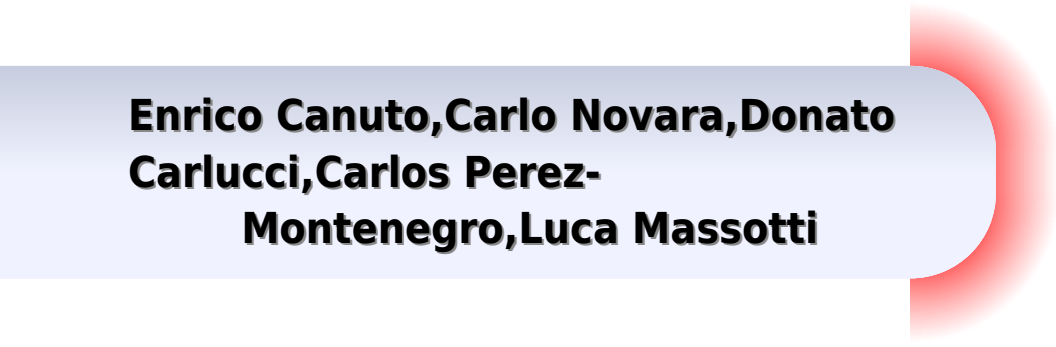
The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% of the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

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

(14)

Physics Paper 1 June 2013 Memorandum

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



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Rapid Excavation and Tunneling Conference 2013 Proceedings Michael A. DiPonio, Chris Dixon, 2013 Annotation
Every two years industry leaders and practitioners from around the world gather at the Rapid Excavation and Tunneling Conference RETC the authoritative program for the tunneling profession This comprehensive book includes more than 100 papers from industry experts highlighting their most recent projects and sharing real world experiences that will keep you up to date on the latest tunneling trends and technologies

Mechanics of Ice Failure Ian Jordaan, 2023-03-02 Featuring real world examples and practical methodology this rigorous text explores time dependence in the mechanics of ice Emphasizing use of full scale data and implementing risk based design methods mechanical theory is combined with design and modelling Readers will gain understanding of fundamental concepts and modern advances of ice mechanics and ice failure processes analysis of field data and use of probabilistic design methods with applications to the interaction of ships and offshore structures with thick ice features or icebergs The book highlights the use of viscoelastic theory including nonlinearity with stress and the effects of microstructural change in the mechanics of ice failure and fracture The methods of design focus on risk analysis with emphasis on rational limit state principles and safety Full discussion of historical discoveries and modern advances including Hans Island Molikpak and others support up to date methods and models to make this an ideal resource for designers and researchers

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

Across Space and Time Arianna Traviglia,2025-10-01 This volume presents a selection of the best papers presented at the forty first annual Conference on Computer Applications and Quantitative Methods in Archaeology The theme for the conference was Across Space and Time and the papers explore a multitude of topics related to that concept including databases the semantic Web geographical information systems data collection and management and more *Scientists at*

War Sarah Bridger,2015-04-06 Sarah Bridger examines the ethical debates that tested the U S scientific community during the Cold War and scientists contributions to military technologies and strategic policymaking from the dawning atomic age through the Strategic Defense Initiative Star Wars in the 1980s which sparked cross generational opposition among scientists

Drawing Futures Bob Sheil,Frédéric Migayrou,Luke Pearson,Laura Allen,2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation Drawing Futures will present a compendium of projects writings and interviews that critically reassess the act of drawing and where its future may lie Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016 Bringing together practitioners from many creative fields the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas *Proceedings of the 6th National Symposium on Rotor Dynamics* J. S. Rao,V. Arun

Kumar,Soumendu Jana,2020-10-13 This book presents select papers presented during the 6th National Symposium on Rotor Dynamics held at CSIR NAL Bangalore and focuses on the latest trends in rotor dynamics and various challenges encountered in the design of rotating machinery The book is of interest to researchers from mechanical aerospace tribology and power industries engineering service providers and academics *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

Progress in Lasers and Laser Fusion Behram Kursunoglu,2013-03-09 This volume contains a portion of the presentations given at the session on Laser Fusion and Laser Development of Orbis Scientiae II held at the Center for Theoretical Studies University of Miami from January 20 through January 24 1975 This second in the new series of meetings held at the CTS strove to implement the goals professed in the organization of Orbis Scientiae in 1974 namely to encourage scientists in several disciplines to exchange views not only with colleagues who share similar research interests but also to acquaint scientists in other fields with the leading ideas and current results in each area represented Thus an effort has been made to include papers in each session that discuss fundamental issues in a way which is comprehensible to scientists who are specialists in other areas Also in keeping with the philosophy of Orbis Scientiae the major topics each year are to be varied with the invariant being the inclusion of developments in fundamental physics The discussions of the current state of the art in lasers and fusion represented in this volume are not only of interest because they deal with newly unfolding branches of physics but also because of their potential technological and societal significance The paper by V N Lugovoi and A M Prokhorov was not presented at Orbis Scientiae II but is included because of its relevance to the topics in this volume

Large-Eddy Simulation in Hydraulics Wolfgang Rodi,George Constantinescu,Thorsten Stoesser,2013-06-27 An introduction to the Large Eddy Simulation LES method geared primarily toward hydraulic and environmental engineers the book covers special features of flows in water bodies and summarizes the experience gained with LES for calculating such flows It can also be a valuable entry to the subject of LES for researchers and students in all fields of fluids engineering and

the applications part will be useful to researchers interested in the physics of flows governed by the dynamics of coherent structures

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Table of Contents Physics Paper 1 June 2013 Memorandum

1. Understanding the eBook Physics Paper 1 June 2013 Memorandum
 - The Rise of Digital Reading Physics Paper 1 June 2013 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Paper 1 June 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 Physics Paper 1 June 2013 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Paper 1 June 2013 Memorandum
 - Personalized Recommendations
 - Physics Paper 1 June 2013 Memorandum User Reviews and Ratings
 - Physics Paper 1 June 2013 Memorandum and Bestseller Lists
5. Accessing Physics Paper 1 June 2013 Memorandum Free and Paid eBooks

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 - Physics Paper 1 June 2013 Memorandum Budget-Friendly Options
6. Navigating Physics Paper 1 June 2013 Memorandum eBook Formats
- ePub, PDF, MOBI, and More
 - Physics Paper 1 June 2013 Memorandum Compatibility with Devices
 - Physics Paper 1 June 2013 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physics Paper 1 June 2013 Memorandum
 - Highlighting and Note-Taking Physics Paper 1 June 2013 Memorandum
 - Interactive Elements Physics Paper 1 June 2013 Memorandum
8. Staying Engaged with Physics Paper 1 June 2013 Memorandum
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Paper 1 June 2013 Memorandum
9. Balancing eBooks and Physical Books Physics Paper 1 June 2013 Memorandum
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Paper 1 June 2013 Memorandum
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Paper 1 June 2013 Memorandum
- Setting Reading Goals Physics Paper 1 June 2013 Memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Paper 1 June 2013 Memorandum
- Fact-Checking eBook Content of Physics Paper 1 June 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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