



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.



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

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

(10)

Physical Science Paper1 November 2013 Memorandum

Robert R. Redfield



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Relative Equilibria in the 3-Dimensional Curved n -Body Problem Florin Diacu,2014-03-05 Considers the 3 dimensional gravitational n body problem $n \geq 2$ in spaces of constant Gaussian curvature $k \neq 0$ i.e on spheres S^3 for $k < 0$ and on hyperbolic manifolds H^3 for $k > 0$

The Case for Pandora James Essig,Steve McCarter,2016-12-19 This book is about building craft for space travela space travel that is not in the distant future but in the immediate future There is no question that we have the technology to build and power large craft capable of traversing the galaxy and for now this book will focus on achieving the goal of intragalactic travel We will describe various methods of power generation and propulsion delineate the materials and technology for construction discuss the building of the spacecraft from the outside in and show what is required to sustain life on the craft for extended periods of time While we will go into some detail on each of these pointing out advantages and disadvantages to components and methods this is not nor is it intended to be a highly technical book to be used by specialists Rather it is intended to inform the general readership about what is possible and perhaps what is not in building and operating spacecraft for long distance and long duration travel with current and available means

Large Deviations for Additive Functionals of Markov Chains Alejandro D. de Acosta,Peter Ney,2014-03-05

Title Announcement Bulletin ,1956

Near Soliton Evolution for Equivariant

Schrodinger Maps in Two Spatial Dimensions Ioan Bejenaru, Daniel Tataru, 2014-03-05 The authors consider the Schrödinger Map equation in $2+1$ dimensions with values into $\mathbb{S}^2$. This admits a lowest energy steady state Q namely the stereographic projection which extends to a two dimensional family of steady states by scaling and rotation. The authors prove that Q is unstable in the energy space $\dot{H}^1$. However in the process of proving this they also show that within the equivariant class Q is stable in a stronger topology $X \subset \dot{H}^1$. *Energy Research Abstracts*, 1978 Physical Science, 1981

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