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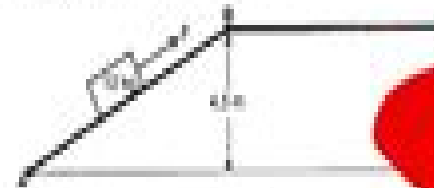
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FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

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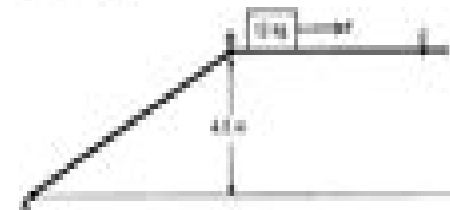
(QUESTION 6 (Start on a new page.)

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. (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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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 $K > 0$

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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 $\dot{H}^1$.
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