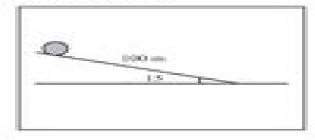# Solution for Long-answer Homework 6 Inertia and Momentum problems

Solution to Long-answer Homework Problem 6.1(Incline Acceleration)

Problem: Consider the following frictionless system [note that "frictionless" means the ball will slide, not roll, which is good since we don't know how to handle rolling yet]. The ball begins moving from rest, 100m up an incline.

(a) What is the acceleration along the incline?

(b) How much time does the ball take to reach level ground?

(c) What is the ball's velocity as it reaches the bottom of the incline?

(d) At the bottom of the incline, assume the ball's velocity is transferred perfectly to the horizontal direction, where it hits a 2m wide snowbank. If the ball's velocity as it leaves the snowbank is exactly 1/2 of what its velocity was when it hit the snowbank, what was the average acceleration of the ball as it travelled through the snowbank? Assume the only acceleration is along the horizontal direction, due to interaction with the snow. [Neglect gravity, since it is just traveling horizontally for this portion of the motion.]

Solution to Part (a)

This is all going to be in one dimension, so signs are enough to denote the vector properties of position, velocity and acceleration. Let me choose up the incline to be positive. The angle of incline is 15°, thus the ball's acceleration as it slides down the incline is:

$$a_x = -g \sin \theta$$
$$= -\left(9.8 \frac{m}{s^2}\right) \sin(15°)$$
$$= -2.54 \frac{m}{s^2}$$

Solution to Part (b)

We can use the position equation to find the amount of time to reach the bottom, $x_f = x_0 + v_{x,0} t + \frac{1}{2} a_x t^2$. We chose up the incline to be positive; let's choose the bottom of the ramp to be the origin $x = 0m$. Using this origin to find the time to reach the bottom of the ramp, we have $x_f = 0m$ and $x_0 = +100m$. The acceleration of the ball was found in part (a). Also, the ball started sliding from rest, so $v_{x,0} = 0$. Plugging in this information allows us to solve for time.

$$x(t) = 100m + \left(0 \frac{m}{s}\right) t + \frac{1}{2}\left(-2.54 \frac{m}{s^2}\right) t^2$$
$$-100m = \left(-1.27 \frac{m}{s^2}\right) t^2$$
$$t^2 = 78.90 s^2$$
$$t = 8.87s$$

So it takes the ball 8.87s to slide down the ramp.

1

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<u>Biharmonic Problem in the Theory of Elasticity</u> Sergey A. Lurie,2020-04-15 This reference work offers a method of deriving exact solutions to the biharmonic equation in the context of elasticity problems and proposes a number of new solutions Beginning with an in depth presentation of a general mathematical model this text proceeds to outline specific applications extending the developed method to special harmonic problems of mechanics for conjugated domains All applications are illustrated with numerical examples **Literature 1988, Part 1** U. Esser,H. Hefele,Inge Heinrich,W. Hofmann,D. Krahn,V. R. Matas,Dr. Lutz D. Schmadel,G. Zech,2013-11-11 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2 **Analysis and Design of Advice** Ivan Jureta,2011-03-03 Advice involves recommendations on what to think through thought on what to choose and via choices on how to act Advice is information that moves by communication from advisors to the recipient of advice Ivan Jureta offers a general way to analyze advice The analysis applies regardless of what the advice is about and from whom it comes or to whom it needs to be given and it concentrates on the production and consumption of advice independent of the field of application It is made up of two intertwined parts a conceptual analysis and an analysis of the rationale of advice He premises that giving advice is a design problem and he treats advice as an artifact designed and used to influence decisions What is unusual is the theoretical backdrop against which the author s discussions are set ontology engineering conceptual analysis and artificial intelligence While classical decision theory would be expected to play a key role this is not the case here for one principal reason the difficulty of having relevant numerical quantitative estimates of probability and utility in most practical situations Instead conceptual models and mathematical logic are the author s tools of choice The book is primarily intended for graduate students and researchers of management science They are offered a general method of analysis that applies to giving and receiving advice when the decision problems are not well structured and when there is imprecise unclear incomplete or conflicting qualitative information <u>Applied Mechanics Reviews</u> ,1976 <u>Relative</u>

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