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### Physics 111 Homework Solution 7

PHYSICS 111 HOMEWORK SOLUTION #7 March 10, 2013 0.1 A bead slides without friction around a looptheloo (see gure below). The bead is released from rest at a height  $h = 3.30R$ .

### PHYSICS 111 HOMEWORK SOLUTION #7

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281093)  $3.28 \text{ cm}^3$  the electron concentration is  $5.728 \times 10^{31} \text{ cm}^{-3}$ . Thus  $2.23 \times 10^7 \text{ ergs}$ , or  $3.10 \text{ eV}$ .

### **Physics 111 Homework Solution 7 - thendtharlatab**

PHYSICS 111 HOMEWORK SOLUTION #7 March 10, 2013 0.1 A bead slides without friction around a loop-the-loop (see figure below). The bead is released from rest at a height  $h = 3.30R$ .

### **HW7\_SOL - PHYSICS 111 HOMEWORK SOLUTION#7 0.1 A bead ...**

Physics 111 Homework Solutions Week #7 - Friday Tuesday, February 18, 2014 Chapter 20 Questions 20.2 The speed is inversely proportional to the index of refraction. Therefore the material with the highest index of refraction will have the lowest speed. We have from lowest speed to greatest speed: diamond, crown glass, water, air.

### **Physics 111 Homework Solutions Week #7 - Friday**

PHYSICS 111 HOMEWORK SOLUTION #10 April 22, 2013. 0.1 Consider the following figure: • Select the necessary conditions for equilibrium of the object shown in the figure above and the torque about an axis through point O. 1.  $F_x + F_y = 0$  2.  $F_y + R_y - F_g = 0$  3.  $R_x + R_y = 0$  4.  $F_y \cos \theta - F_x \sin \theta = 0$  5.  $F_x - R_x = 0$  6.  $F$

### **PHYSICS 111 HOMEWORK SOLUTION #10**

PHYSICS 111 HOMEWORK SOLUTION, week 4, chapter 5, sec 1-7 February 13, 2013. 0.1 A 2.00-kg object undergoes an acceleration given by  $\vec{a} = (6.00\hat{i} + 4.00\hat{j}) \text{ m/s}^2$  a) Find the resultant force acting on the object b) Find the magnitude of the resultant force a) Newton's Second Law: P

### **PHYSICS 111 HOMEWORK SOLUTION, week 4, chapter 5, sec 1-7**

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PHYSICS 111 HOMEWORK SOLUTION #10 April 10, 2013. 0.1 Given  $\vec{M} = 4\vec{i} + \vec{j} + 3\vec{k}$  and  $\vec{N} = \vec{i} + 2\vec{j} + 5\vec{k}$ , calculate the vector product  $\vec{M} \times \vec{N}$ . ... = 7:37 rev/s 0.9 A uniform cylindrical turntable of radius 1.80 m and mass 26.1 kg rotates counterclockwise in a horizontal plane with an initial angular

### PHYSICS 111 HOMEWORK SOLUTION #10

PHYSICS 111 HOMEWORK SOLUTION #8 March 24, 2013. 0.1 A particle of mass  $m$  moves with momentum of magnitude  $p$ . • a) Show that the kinetic energy of the particle is:  $K = \frac{p^2}{2m}$  (Do this on paper. Your instructor may ask you to turn in this ... 0.7 A tennis player receives a shot with the ball (0.060 kg) traveling

### PHYSICS 111 HOMEWORK SOLUTION #8

PHYSICS 111 HOMEWORK SOLUTION #5 March 3, 2013. 0.1 Your 3.80-kg physics book is placed next to you on the horizontal seat of your car. The coefficient of static friction between the book and the seat is 0.650, and the coefficient of kinetic friction is 0.550. You

### PHYSICS 111 HOMEWORK SOLUTION #5

PHYSICS 111 HOMEWORK SOLUTION #9 April 5, 2013. 0.1 A potter's wheel moves uniformly from rest to an angular speed of 0.16 rev/s in 33 s. • a) Find its angular acceleration in radians per second per second. • b) Would doubling the angular acceleration during the given

### PHYSICS 111 HOMEWORK SOLUTION #9

Wrapper for Physics 111 Homework #3 1. We want you to try a similar exercise as you did on homework 1. We want you to self-assess where you think you are on the ideas exercised in this homework before you start the assignment and then, when you are done, to see if your opinion has changed. If you have

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## **Wrapper for Physics 111 Homework #1**

Homework Assignment #3 Solutions; Homework Assignment #4 Solutions; Homework Assignment #5 Solutions; Homework Assignment #6 Solutions; Homework Assignment #7 Solutions; Homework Assignment #8 Solutions; Homework Assignment #9 Solutions; Homework Assignment #10 Solutions; Homework Assignment #11 Solutions; Homework Assignment #12 Solutions

## **Physics 111 Homework Solutions - SIUE**

Physics 111 Homework Solutions Week #7 - Friday Tuesday, February 15, 2011 Chapter 19 Questions 19.4 The intensity is the total amount of energy per unit time that flows across an area A. The Poynting vector gives the direction of the energy flow per unit time per unit area.

## **Physics 111 Homework Solutions Week #7 - Friday**

Physics 111 Homework Solutions Week #7 - Thursday Monday, February 15, 2010 Chapter 19 Questions 19.2 They are both transverse and carry energy in their amplitudes. Light waves are electromagnetic while waves on a string are mechanical (they need a medium to propagate.) Also, light propagates at a speed  $c$  in a vacuum and at a speed  $v$  in a

## **Physics 111 Homework Solutions Week #7 - Thursday**

Physics 111 Homework Solutions Week #1 - Friday Tuesday, January 7, 2014 Chapter 14 Questions 14.1 We have an initial charge of  $+15 e^-$  and when we remove 20 protons, the charge decreases to  $-5 e^-$ . Then removing 5  $e^-$  makes the system neutral with a charge of 0  $e^-$ . 14.2 Since both the charge and mass has to be conserved we have

## **Physics 111 Homework Solutions Week #1 - Friday**

Physics 111 Homework Solutions Week #2 - Tuesday Friday, January 9, 2015 Chapter 14 Questions

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14.2 Since objects are charged each will exert equal and opposite forces on each other. If the test charge is massive then its acceleration will be small and both charges will move around in the field of the other. If on the other hand the test charge is

### **Physics 111 Homework Solutions Week #2 - Tuesday**

Physics 111 Homework Solutions Collected on Wednesday 10/29 Friday, October 24, 2014

Questions 21.5 A plane mirror reverses left and right but not up and down. A converging lens when it produces a real image reverses up and down (if the object is upright, it's image is inverted.) This is one difference between the lens and the plane mirror.

### **Physics 111 Homework Solutions Collected on Wednesday 10/29**

Physics 111 Homework Solutions Week #5 - Friday Tuesday, February 4, 2014 Chapter 17

Questions - None Multiple-Choice 17.12 B 17.13 B 17.14 D Problems 17.16 Two long vertical wires  
a. At the center between the two wires, the directions of the fields are shown in the diagram below. Taking up the page as the positive y-direction, we find that the

### **Physics 111 Homework Solutions Week #5 - Friday**

PHYSICS 112 Homework 2 Solutions 1. (a) If the two states have energy 0 and  $q$ , the partition function is given by  $Z = 1 + e^{-\beta q}$ , where  $\beta = 1/kBT$ , and so the free energy is given by  $F = -kBT \ln Z = -kBT \ln 1 + e^{-\beta q}$  (b) The energy is given by

### **PHYSICS 112 Homework 2 Solutions**

View Notes - HW4\_sol from PHYS 111-B at New Jersey Institute Of Technology. PHYSICS 111 HOMEWORK SOLUTION, week 4, chapter 5, sec 1-7 February 13, 2013 0.1 A 2.00-kg object undergoes an acceleration

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