

1. An engineer at NASA is investigating the impact of meteorites on the planets. He performs experiments in a vacuum by dropping metal spheres of different sizes and different heights above a horizontal bed of sand. In one experiment, a metal sphere of mass 0.1kg is dropped from a height of 1.2 metres. The sphere makes a depression in the sand of 2cm.

(Gravitational field strength, $g = 10 \text{ N kg}^{-1}$)

- i) Calculate the potential energy of the sphere.
- ii) Calculate the velocity of the sphere just before hitting the surface of the sand.
(Hint: $E_p = E_k$)
- iii) Calculate the average retarding force acting on the sphere as it comes to rest in the sand. When the object passes through sand it will lose its kinetic energy to overcome the resisting force by sand.

(Hint : Retarding force or stopping force is simply the force that is applied in the opposite direction to the direction of motion thus, producing deceleration in a body or produces a negative acceleration.)

(Hint : Force x displacement = Kinetic Energy, will prove in class)

Thus, if we find the Kinetic energy using $E_k = \frac{mv^2}{2}$ we can find the retarding force using $F \times d = K.E.$

2. Brandon is loading boxes onto the tray of a flatbed truck. He uses a ramp of length 8m to assist him. He pushes a box of mass 120 kg up the ramp with a force of 200N. The box moves through a vertical distance of 0.8m.
- (Gravitational field strength, $g = 10 \text{ N kg}^{-1}$)
- i) Calculate the change in gravitational potential energy of the box.
 - ii) Calculate the work done by the 200N force.
 - iii) Calculate the efficiency of the ramp.

Note : N kg^{-1} is equivalent to ms^{-2} . Will prove in class

Physics 2014paper1final Exam Grd11

PT Brinkman



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