

Physics 148  
Written Homework 9  
Sections 8.1-8.5

Problem 1: Spring drop (5 pts.)

A spring with  $k = 480 \frac{\text{N}}{\text{m}}$  is oriented vertically. You drop a 10 kg dictionary on it from a height of 75 cm above the top of the spring. What is the maximum distance the spring will be compressed?

$$E = K + U_g + U_{\text{spring}} \quad 0.75 + x + 5x^2$$

$$0.75 + x + 5x^2 = 0 U_g = E_2$$

$$-5x^2 + x + 0.75 = mgh = \frac{1}{2} kx^2$$

(initial 0.75)

$$k = 480$$

$$m = 10 \text{ kg}$$

$$h = 0.75$$



$$K = \frac{1}{2} mv^2$$

$$U_{g, \text{initial}} = mgh$$

$$U_{\text{spring}} = \frac{1}{2} kx^2$$

$$0 = \left( \frac{1}{2} \cdot 10 \cdot 0^2 \right) + (10 \cdot 9.81 \cdot -0.75) + \left( \frac{1}{2} \cdot 480 \cdot x^2 \right)$$

$$0 = 78.5 + 480x^2$$

$$x^2 = 0.16$$

$$x = 0.39 \text{ m or } 39 \text{ cm}$$

Problem 2: Variable force (5 pts.)

A particle with mass  $m = 2.2 \text{ kg}$  moving along the  $x$ -axis is subject to a potential energy of the form  $U(x) = -\frac{C}{x} + D$ , where  $C = 18.4 \text{ J} \cdot \text{m}$  and  $D = 277 \text{ J}$ .

When the particle is at  $x = -2.56 \text{ m}$ , what is its acceleration?

$$U(x) = \frac{-18.4 \text{ J} \cdot \text{m}}{x} + 277$$

$$F_x = -\frac{dU}{dx}$$

$$ma = \frac{dU}{dx}$$

$$= -\frac{d}{dx} \left( -40.4 \frac{1}{x} + 277 \right)$$

$$= 40.4 \cdot \frac{1}{x^2} + 0$$

$$= \frac{40.4}{x^2}$$

$$= \frac{40.4}{(-2.56)^2} = -6.16$$

$$6.16 = 2.2 \cdot a$$

$$a =$$

$$a = 2.802 \text{ m/s}^2$$

# Physics Lab Manual 141

**J Spring**



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