- A 600 g mass is hung from a vertical spring. It oscillates up and down with a period of 0.500 s. The mass is pushed up from its equilibrium position (y = 0) by 10.0 cm and released.
 - (a) Write an equation for the vertical position of the mass as a function of time, t, after the mass was released.
 - (b) What is the maximum speed of the mass?
 - (c) What is the spring constant, k, of the spring?
 - (d) What is the maximum net force exerted on the mass?
- (e) If the mass were given an initial downward speed of 1.00 m/s at t = 0, instead of being released from rest, what would be the new answers for parts (b) and (c).

Trest, what would be the new answers for pairs (6) and (6).

(a)
$$w = \frac{2\pi}{7} = \frac{2\pi}{0.55} = 4\pi J_{5}^{2} = 12.57 \text{ Hz}$$
 $y(x) = y_{m} \cos(\omega x + \phi)$
 $at \quad x = 0 \quad y = y_{m} \implies \phi = 0 \quad ; \quad y_{m} = 0.1 \text{ m.}$
 $y = (0.1 \text{ m}) \cos(4\pi t)$

(b) $N = 0 \text{ H/J}_{t} = -y_{m} \omega \sin(\omega t)$
 $N = y_{m} \omega = (0.1 \text{ m}) (4\pi I_{5}) = 1.26 \text{ m/s}$

(c) $k = m \omega^{2} = (0.6 \text{ kg}) (4\pi I_{5})^{2} = 94.7 \text{ N/m}$

(d) $F_{m} = k y_{m} = (74.7 \text{ N/m}) (0.1 \text{ m}) = 94.7 \text{ N/m}$

(e) $N_{m} = y_{m} \omega = m(\omega^{2} y_{m})$
 $N_{m} = y_{m} \omega = m(\omega^{2} y_{m})$
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Mechanics 2 Exam Solutions

Julia Schneider

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