

CHAPTER 16: OSCILLATORY MOTION AND WAVES

16.1 HOOKE'S LAW: STRESS AND STRAIN REVISITED

1. Fish are hung on a spring scale to determine their mass (most fishermen feel no obligation to truthfully report the mass). (a) What is the force constant of the spring in such a scale if it the spring stretches 8.00 cm for a 10.0 kg load? (b) What is the mass of a fish that stretches the spring 5.50 cm? (c) How far apart are the half-kilogram marks on the scale?

Solution

$$(a) \quad F = -kx \Rightarrow k = -\frac{mg}{x} = -\frac{(10.0 \text{ kg})(9.80 \text{ m/s}^2)}{-0.0800 \text{ m}} = 1.225 \times 10^3 \text{ N/m} = \underline{1.23 \times 10^3 \text{ N/m}}$$

$$(b) \quad F = mg = -kx \Rightarrow k = -\frac{kx}{g} = -\frac{(1.225 \times 10^3 \text{ N/m})(-0.0550 \text{ m})}{9.80 \text{ m/s}^2} = 6.875 \text{ kg} = \underline{6.88 \text{ kg}}$$

$$(c) \quad x = \frac{mg}{k} = \frac{(0.500 \text{ kg})(9.80 \text{ m/s}^2)}{1.225 \times 10^3 \text{ N/m}} = 4.00 \times 10^{-3} \text{ m} = \underline{4.00 \text{ mm}}$$

2. It is weigh-in time for the local under-85-kg rugby team. The bathroom scale used to assess eligibility can be described by Hooke's law and is depressed 0.75 cm by its maximum load of 120 kg. (a) What is the spring's effective spring constant? (b) A player stands on the scales and depresses it by 0.48 cm. Is he eligible to play on this under-85-kg team?

Solution

$$(a) \quad k = -\frac{F}{x} = -\frac{mg}{x} = -\frac{(120 \text{ kg})(9.80 \text{ m/s}^2)}{-0.750 \times 10^{-2} \text{ m}} = \underline{1.57 \times 10^4 \text{ N/m}}$$

$$(b) \quad F = -kx$$

$$mg = -kx \Rightarrow m = \frac{-kx}{g} = \frac{-(1.57 \times 10^4 \text{ N/m})(0.0048 \text{ m})}{-9.80 \text{ m/s}^2} = 76.90 \text{ kg} = \underline{77 \text{ kg}}$$

Yes, he is eligible to play.

Physics Solutions Manual Chapter 13

Mendel Kleiner



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