

- P1.84** Consider the punch fixture of Figure P1.82. If the punch strikes the mass off center it is possible that the steel bar may vibrate in torsion. The mass is 1000 kg and the bar 0.25 m-long, with a square cross section of 0.1 m on a side. The mass polar moment of inertia of the tip mass is $10 \text{ kg}\cdot\text{m}^2$. The polar moment of inertia for a square bar is $b^4/6$, where b is the length of the side of the square. Compute both the torsion and longitudinal frequencies. Which is larger?

Solution: First compute the longitudinal frequency of the bar:

$$\omega_L = \sqrt{\frac{EA}{lm}} = \sqrt{\frac{(2.0 \times 10^{11} \text{ N/m}^2)(0.001 \text{ m}^2)}{1000(0.25) \text{ kg}\cdot\text{m}}} = 2.828 \times 10^3 \text{ rad/s}$$

Next compute the torsional frequency of the bar (square cross section):

$$\omega_T = \sqrt{\frac{GJ}{I\theta}} = \sqrt{\frac{8 \times 10^9 (0.1^4/6) \text{ N}\cdot\text{m}}{0.25 \times 10^3}} = 73.03 \text{ rad/s}$$

In this case the torsional frequency is lower and should be considered in any design.

- P1.85** A helicopter landing gear consists of a metal framework rather than the coil spring based suspension system used in a fixed-wing aircraft. The vibration of the frame in the vertical direction can be modeled by a spring made of a slender bar as illustrated in Figure 1.23, where the helicopter is modeled as ground. Here $l = 0.4 \text{ m}$, $E = 20 \times 10^{10} \text{ N/m}^2$, and $m = 100 \text{ kg}$. Calculate the cross-sectional area that should be used if the natural frequency is to be $f_n = 500 \text{ Hz}$.

Solution: From equation (1.63)

$$\omega_n = \sqrt{\frac{l}{m}} = \sqrt{\frac{EA}{lm}} \quad (1)$$

and

$$\omega_n = 500 \text{ Hz} \left(\frac{2\pi \text{ rad}}{1 \text{ cycle}} \right) = 3142 \text{ rad/s}$$

Solving (1) for A yields:

$$A = \frac{\omega_n^2 lm}{E} = \frac{(3142)^2 (0.4) (100)}{20 \times 10^{10}} = 0.001974$$

$$A = 0.0020 \text{ m}^2 = 20 \text{ cm}^2$$

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