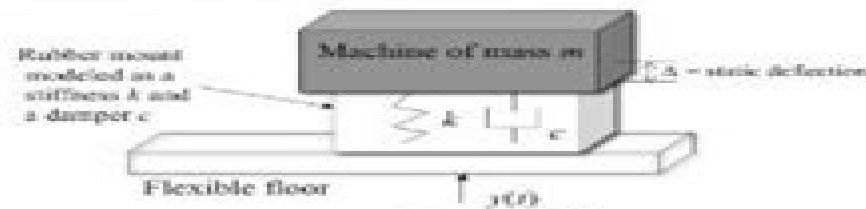


**Problems and Solutions Section 2.4 (2.37 through 2.50)**

- 2.37** A machine weighing 2000 N rests on a support as illustrated in Figure P2.37. The support deflects about 5 cm as a result of the weight of the machine. The floor under the support is somewhat flexible and moves, because of the motion of a nearby machine, harmonically near resonance ( $r = 1$ ) with an amplitude of 0.2 cm. Model the floor as base motion, and assume a damping ratio of  $\zeta = 0.01$ , and calculate the transmitted force and the amplitude of the transmitted displacement.


**Figure P2.37**

**Solution:**

Given:  $Y = 0.2$  cm,  $\zeta = 0.01$ ,  $r = 1$ ,  $mg = 2000$  N. The stiffness is computed from the static deflection and weight:

$$\text{Deflection of 5 cm implies: } k = \frac{mg}{\Delta} = \frac{mg}{5\text{cm}} = \frac{2000}{0.05} = 40,000 \text{ N/m}$$

$$\text{Transmitted displacement from equation (2.70): } X = Y \left[ \frac{1 + (2\zeta r)^2}{(1 - r^2)^2 + (2\zeta r)^2} \right]^{1/2} = 10 \text{ cm}$$

$$\text{Transmitted force from equation (2.77): } F_T = kYr^2 \left[ \frac{1 + (2\zeta r)^2}{(1 - r^2)^2 + (2\zeta r)^2} \right]^{1/2} = 4001 \text{ N}$$

- 2.38** Derive Equation (2.70) from (2.68) to see if the author has done it correctly.

**Solution:**

Equation (2.68) states:

$$x_r(t) = \omega_s Y \left[ \frac{\omega_s^2 + (2\zeta\omega_s)^2}{(\omega_s^2 - \omega_b^2)^2 + (2\zeta\omega_s\omega_b)^2} \right]^{1/2} \cos(\omega_s t - \theta_1 - \theta_2)$$

$$\text{The magnitude is: } X = \omega_s Y \left[ \frac{\omega_s^2 + (2\zeta\omega_s)^2}{(\omega_s^2 - \omega_b^2)^2 + (2\zeta\omega_s\omega_b)^2} \right]^{1/2}$$

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