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### Structural Dynamics Chopra Solutions

Solution: Given:  $T_m = \pi \sqrt{\frac{m}{k}} = 0.5 \text{ sec}$  (a)  $k = \frac{m}{T_m^2} = \frac{50 \text{ g}}{(0.5)^2} = 200 \text{ g/sec}^2$  (b) 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives  $\frac{k}{m} = \frac{200}{50} = 4 \text{ sec}^{-2}$   $\Rightarrow 1 = \frac{1}{2.25} \frac{k}{m} = \frac{1}{2.25} \frac{200}{m} \Rightarrow m = 90 \text{ g}$

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Solution:  $k = \frac{m_1 g}{\delta_{st1}} = \frac{m_1 g}{\frac{m_1}{k}} = k$  With  $u$  measured from the static equilibrium position of  $m_1$  and  $k$ , the equation of motion after impact is  $(m_1 + m_2) \ddot{u} + ku = m_2 g$  (a) The general solution is  $u(t) = A \cos \omega_n t + B \sin \omega_n t + \frac{m_2 g}{k}$  (b)  $k \omega_n = k \sqrt{\frac{1}{m_1 + m_2}}$  (c) The initial conditions are  $u(0) = 0$  and  $\dot{u}(0) = \frac{m_2 g}{k}$  (d)  $\frac{1}{2} \frac{m_2 g}{k}$  The initial velocity in Eq.

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Problem 1.17 A heavy rigid platform of weight  $w$  is supported by four columns, hinged at the top and the bottom, and braced laterally in each side panel by two diagonal steel wires as shown in Fig ...

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H. Ahmadian's research interests are Model Updating, Inverse Eigenvalue Problems, Structural Dynamics and Finite Element Modeling. His contributions on Model Updating, where measured modal test ...

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