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Solution: Given: $T = \pi \sqrt{\frac{m}{k}} = 0.5 \text{ sec}$ (a) $k = \frac{2mg}{T^2} = 2 \frac{m}{0.5^2} = 8m$ (b) 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives $\left(\frac{0.75}{0.5}\right)^2 = \frac{k}{8m} \Rightarrow 2.25 = \frac{k}{8m} \Rightarrow k = 18m$

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Solution: $k = \frac{m_2 g}{u} = \frac{m_2 g}{\frac{m_1 u}{m_1 + m_2}} = \frac{m_2 g (m_1 + m_2)}{m_1 u}$ 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) $\omega_n = \sqrt{\frac{k}{m_1 + m_2}}$ (c) The initial conditions are $u(0) = 0$ and $\dot{u}(0) = g \sqrt{\frac{m_1 + m_2}{2gh}}$ (d) $\dot{u}(0) = \frac{m_2 g}{k} \omega_n$ 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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Modified Differential Transform Method for Solving ...

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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