

# Dynamics Of Structures Chopra Solution

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Instructor's Solution Manual for Dynamics of Structures, 5th Edition Anil K. Chopra, University of

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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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Solution: Given:  $T = \pi/2 = 0.5 \text{ sec}$  (a)  $k_T = \pi^2 = 2 \text{ m} + 50 \text{ g}$   $k = 0.75 \text{ sec}$  (b) 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives  $2 \left( \frac{0.75}{\pi} \right)^2 \left| \frac{T}{m} \right| = \frac{+50 \text{ g}}{1} \Rightarrow \left| \frac{T}{m} \right| = 2.25 \left| \frac{T}{m} \right|$

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The general solution is  $u(t) = A \cos(\omega t) + B \sin(\omega t) + \frac{g}{\omega^2}$  (b)  $\omega_n^2 = \frac{k}{m} = 12$  (c) The initial conditions are  $u(0) = 0$   $\dot{u}(0) = 2g$   $\frac{1}{2} + \dots =$  (d) The initial velocity in Eq. (d) was determined by conservation of momentum during impact:  $m_1 u_1 + m_2 u_2 = (m_1 + m_2) u$  where  $u = 2g$  Impose initial conditions to determine A and B:  $u(0) = 0 \Rightarrow A = -\frac{g}{\omega^2}$  (e)  $u(t) = \frac{g}{\omega^2} (\cos(\omega t) - 1) + \frac{g}{\omega^2}$

## **CHAPTER 2**

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Dynamics of Structures 5th Edition Chopra Solutions Manual 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives  $2 \left( \frac{1}{T} \right)^2 \dots$  2. Determine the lateral stiffness of the table. Substitute for  $m$  in Eq. (a) and solve for  $k$ :  $\left( \frac{40}{k} \right) k = 16\pi^2 m = 16\pi^2 \dots$

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