



Solution:

(a) Natural frequencies of the system:

$$\omega_{1,2}^2 = \frac{\mathbf{k}_1 + \mathbf{k}_2}{2 \, \mathbf{m}_1} + \frac{\mathbf{k}_2}{2 \, \mathbf{m}_2} \mp \sqrt{\frac{1}{4} \left( \frac{\mathbf{k}_1 + \mathbf{k}_2}{\mathbf{m}_1} + \frac{\mathbf{k}_2}{\mathbf{m}_2} \right)^2 - \frac{\mathbf{k}_1 \, \mathbf{k}_2}{\mathbf{m}_1 \, \mathbf{m}_2}}$$

$$\omega_{1,\,2}^2 = \frac{1.5\times 10^9}{130000} + \frac{10^9}{100000} \mp \sqrt{\frac{1}{4}\left(\frac{1.5\times 10^9}{65000} + \frac{10^9}{50000}\right)^2} - \frac{500\times 10^{15}}{3.25\times 10^9}$$

- or  $\omega_1 = 62.6894$  rad/sec.  $\omega_2 = 197.8559$  rad/sec.
- (b) Initial conditions of the system:

Let  $\vartheta_2$  = initial velocity of anvil and frame just after the impact of tup.

From conservation of momentum principle, momentum of tup plus momentum of  $m_2$  just before impact = momentum of tup plus momentum of  $m_2$  just after impact.

i.e. 
$$m_{tup} \vartheta_{tup} + m_2 (0) = m_{tup} \vartheta_0 + m_2 \vartheta_2$$
 (E<sub>1</sub>)

where  $\vartheta_0$  = velocity of rebound of tup after impact Also.

Coefficient of restitution (e) =  $\left(\frac{\text{relative velocity after impact}}{\text{relative velocity before impact}}\right)$ 

i.e. 
$$e = \frac{\vartheta_2 - \vartheta_0}{\vartheta_{tup}}$$
 or  $\vartheta_0 = \vartheta_2 - e \vartheta_{tup}$  (E<sub>2</sub>)

From Eqs.  $(E_1)$  and  $(E_2)$ ,

$$\vartheta_2 = \frac{m_{tup} \vartheta_{tup} (1 + e)}{m_{tup} + m_2}$$

For given data,

$$\theta_2 = \frac{2000 (-4.5) (1 + 0.5)}{2000 + 50000} = -0.2596 \text{ m/s}$$

... Initial conditions are:
x, (0) = 0, x, (0) = 0, x<sub>2</sub> (0) = 0, x<sub>3</sub> (0) = -0.2596 m/s.

# **Mechanical Vibrations Rao Solution Manual 4th**

**Karin Nielsen-Saines** 

**Mechanical Vibrations Rao Solution Manual 4th:** 

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