



Solution:

(a) Natural frequencies of the system:

From problem 5.1,

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

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

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

Let ϑ_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.
$$m_{tup} \vartheta_{tup} + m_2 (0) = m_{tup} \vartheta_0 + m_2 \vartheta_2$$
 (E₁)

where ϑ_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 $\vartheta_0 = \vartheta_2 - e \vartheta_{tup}$ (E₂)

From Eqs. (E_1) and (E_2) ,

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

For given data,

$$\vartheta_2 = \frac{2000 \ (-4.5) \ (1+0.5)}{2000 + 50000} = -0.2596 \ \text{m/s}$$

... Initial conditions are:
x, (0) = 0, x, (0) = 0, x₂ (0) = 0, x₃ (0) = -0.2596 m/s.

Mechanical Vibrations Rao Solution Manual 4th

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