

# Chapter 3

## Harmonically Excited Vibration

(a)  $\omega = \frac{2\pi}{T} = \frac{2\pi}{0.002} = 3141.6 \text{ rad/s}$

(b)  $\omega_0 = \frac{p_0}{r} = \frac{50}{0.002} = 25000 \text{ rad/s}$

(c)  $\omega_0 = \sqrt{k} = \sqrt{\frac{40000 \times 3.14}{10}} = 226.46 \text{ rad/s}$   
 $\omega_0 = 2\pi f_0 = 226.46 \text{ rad/s}$

$$x = x_0 \left| \frac{1}{1 - \left( \frac{\omega_0}{\omega} \right)^2} \right| = 0.015 \left| \frac{1}{1 - \left( \frac{226.46}{3141.6} \right)^2} \right| = 0.0315 \text{ m}$$

(d)  $T_0 = \frac{2\pi}{\omega_0 - \omega} = \frac{2\pi}{2\pi(40000 - 3141.6)} = 7.7 \text{ sec}$

(e)  $F_0 = 4000 \text{ N/m}, m = 10 \text{ kg}, F(t) = 4 \text{ sin } \omega t \text{ N}$   
 $F_0 = 4000 \text{ N}, \omega = 10 \text{ rad/s}$

$\omega_0 = \sqrt{\frac{k}{m}} = 10 \text{ rad/s}, \frac{\omega_0}{\omega} = \frac{10}{10} = 1.0 < 1$

Response is given by Eq. (3-9):

$$x(t) = \left( x_0 + \frac{F_0}{k - m\omega^2} \right) \cos \omega_0 t + \left( \frac{\dot{x}_0}{\omega_0} \right) \sin \omega_0 t + \frac{F_0}{k - m\omega^2} \cos \omega t$$

(a)  $x_0 = 0, \dot{x}_0 = 0 \quad (3-1)$

E.g. (3-1) becomes

$$x(t) = \left\{ 0 + \frac{4000}{40000 - 10(100)} \right\} \cos 10t + \frac{4000}{40000 - 10(100)} \sin 10t$$

$$= 0.000398 \text{ sin } 10t + 0.000398 \text{ cos } 10t \quad (3-2)$$

(b)  $x_0 = 0, \dot{x}_0 = 0.1$

E.g. (3-1) becomes

$$x(t) = \left\{ 0 + \frac{0.1}{40000 - 10(100)} \right\} \cos 10t + \frac{0.1}{100} \sin 10t$$

$$+ \left\{ \frac{4000}{40000 - 10(100)} \right\} \cos 10t$$

$$= 0.000398 \text{ sin } 10t + 0.000398 \text{ cos } 10t + 0.000398 \text{ sin } 10t \quad (3-3)$$

$$= 0.000796 \text{ sin } 10t + 0.000398 \text{ cos } 10t + 0.000398 \text{ sin } 10t \quad (3-3)$$

# Solution Manual Vibration 4th Edition Rao

**Padhraic Smyth**

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