

1.56

$$x(t) = \frac{1}{2} \cos \frac{\pi}{2} t - \cos \pi t$$

$$\ddot{x}(t) = -\frac{\pi^2}{8} \cos \frac{\pi}{2} t + \pi^2 \cos \pi t \neq -\text{constant times } x(t)$$

$\therefore x(t)$ is not harmonic

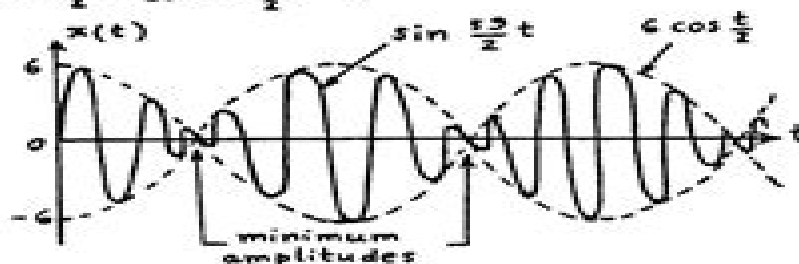
1.57

$$x(t) = x_1(t) + x_2(t) = 3 \sin 30t + 3 \sin 29t$$

$$\text{Since } \sin A + \sin B = 2 \sin \frac{A+B}{2} \cos \frac{A-B}{2},$$

$$x(t) = \left(6 \cos \frac{t}{2}\right) \sin \frac{52}{2} t$$

This equation shows that the amplitude $\left(6 \cos \frac{t}{2}\right)$ varies with time between a maximum value of 6 and a minimum value of 0. The frequency of this oscillation (beat frequency) is $\omega_b = 1$.



Note: Beat frequency is twice the frequency of the term $6 \cos \frac{t}{2}$ since two peaks pass in each cycle of $\left(6 \cos \frac{t}{2}\right)$.

1.58

The resultant motion of two harmonic motions having identical amplitudes (X) but slightly different frequencies (ω and $\omega + \delta\omega$) is given by Eq. (1.67):

$$x(t) = 2X \cos \left(\omega t + \frac{\delta\omega t}{2} \right) \cos \left(\frac{\delta\omega t}{2} \right)$$

Thus the maximum amplitude of the resultant motion is equal to $2X$ and the beat frequency is equal to $\delta\omega$. From Fig. 1.88, we find that $2X \approx 5$ mm or $X = 2.5$ mm and

$$\frac{\delta\omega}{2} = \frac{2\pi}{T_{\text{beat}}} = \frac{2\pi}{T_{\text{major}}} = \frac{2\pi}{2(12.6 - 4.2)} = 0.374 \text{ rad/sec}$$

$$\text{or } \delta\omega = 0.748 \text{ rad/sec and } \omega + \frac{\delta\omega}{2} = \frac{2\pi}{T_{\text{minor}}} = \frac{2\pi}{1} = 6.2832 \text{ rad/sec}$$

Hence $\omega = 6.2832 - 0.3740 = 5.9092$ rad/sec. Thus the amplitudes of the two motions = $X = 2.5$ mm and their frequencies are $\omega = 5.9092$ rad/sec and $\omega + \delta\omega = 5.9092 + 0.7480 = 6.6572$ rad/sec.

1.59

$$A = 0.05 \text{ m}, \quad \omega = 10 \text{ Hz} = 62.832 \text{ rad/sec}$$

$$\text{period} = \tau = \frac{2\pi}{\omega} = \frac{2\pi}{62.832} = 0.1 \text{ sec}$$

$$\text{maximum velocity} = A\omega = 0.05 \times 62.832 = 3.1416 \text{ m/s}$$

$$\text{maximum acceleration} = A\omega^2 = 0.05 (62.832)^2 = 197.393 \text{ m/s}^2$$

Mechanical Vibrations Rao 4th Solution Manual

A Mehran Shahhosseini



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