

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

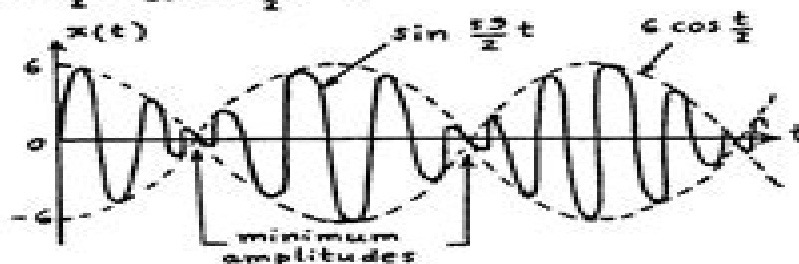
1.57

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

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

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

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 ( $\omega$  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

**L Reisser**



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

*Engineering Vibration Analysis with Application to Control Systems* C. Beards, 1995-06-17 Most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise This book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems combined with a description of how these techniques and results can be applied to the study of control system dynamics Numerous worked examples are included as well as problems with worked solutions and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion All engineers practising and student should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results This text provides an invaluable insight into both

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