Chapter 3

Harmonically Excited Vibration

(a)
$$S = \frac{M}{N} = \frac{10}{4000} = 0.0115 \text{ m}$$
(b) $S_{M} = \frac{T_{N}}{N} = \frac{60}{4000} = 0.015 \text{ m}$
(c) $U_{N} = \int_{S}^{N} = \left(\frac{4000 \times 3.11}{10}\right)^{1/2} = 28.0145 \text{ rad/res}$
 $U = c = m = 17.1321 \text{ rad/res}$
 $X = S_{M} \left| \frac{1}{1 - \left(\frac{M}{M}\right)^{2}} \right| = 0.015 \left| \frac{1}{1 - \left(\frac{37.4322}{10.0142}\right)^{2}} \right| = 0.0152 \text{ m}$

(32) $T_{1} = \frac{18}{U_{N} - U} = \frac{18}{17(400 - 12.7)} = 5 \text{ ms}$

(33) $K = 4000 \text{ N/m}, \quad m = 10 \text{ mg}, \quad F(t) = 400 \text{ cos is } t \text{ N}$
 $S_{N} = 400 \text{ N}, \quad \omega = 10 \text{ rad/s}$
 $S_{N} = 400 \text{ N}, \quad \omega = 10 \text{ rad/s}$
 $S_{N} = \frac{10}{10} = 0.5 \times 1$

Response is given by $S_{N} = \frac{10}{10} = 0.5 \times 1$
 $S_{N} = \frac{1}{10} = \frac{1}{10} = 0.5 \times 1$

(a) $S_{N} = 0.1, \quad S_{N} = 0$:

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(b) $S_{N} = 0.1, \quad S_{N} = 0.5 \times 1$
 $S_{N} = 0.1, \quad S_{N} = 10.5 \times 1$

(c) $S_{N} = 0.5 \times 1 = 10.5 \times 1$

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Mechanical Vibrations Rao 4th Solutions Manual

Ramin S. Esfandiari

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