# 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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 $S_{N} = \frac{1}{10} = \frac{1}{10} = \frac{1}{10} = 0.5 \times 1$ 

(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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