

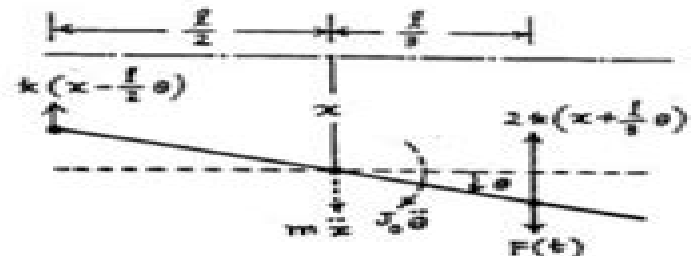
or

$$\begin{bmatrix} m & 0 \\ 0 & J_0 \end{bmatrix} \begin{Bmatrix} \ddot{x} \\ \ddot{\theta} \end{Bmatrix} + \begin{bmatrix} 3k & k\ell/6 \\ k\ell/6 & 17k\ell^2/36 \end{bmatrix} \begin{Bmatrix} x \\ \theta \end{Bmatrix} = \begin{Bmatrix} F(t) \\ \ell F(t)/3 \end{Bmatrix}$$

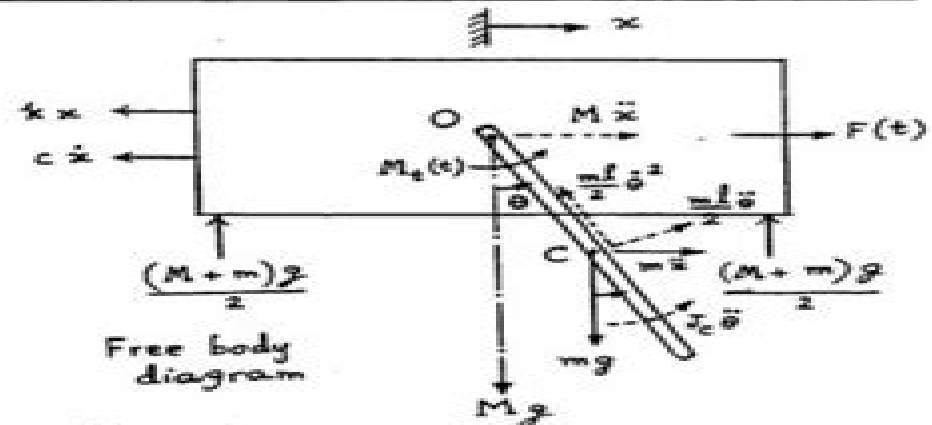
where $J_0 = \frac{m\ell^2}{12}$ and $F(t) = F_0 \sin \omega t$.

(b)

Elastic or static coupling.



5.42



Equations of motion with coordinates $x(t)$ and $\theta(t)$:

For motion along x :

$$M \ddot{x} = -kx - c \dot{x} - (m\ell/2) \ddot{\theta} \cos \theta - m \ddot{x} + (m\ell/2) \dot{\theta}^2 \sin \theta + F(t) \quad (1)$$

For rotation about O :

$$J_c \ddot{\theta} + (m\ell/2) \ddot{\theta} (\ell/2) + m \ddot{x} (\ell \cos \theta/2) = -mg(\ell/2) \sin \theta + M_1(t) \quad (2)$$

Using $J_c = \frac{1}{12} m \ell^2$, $\cos \theta \approx 1$ and $\sin \theta \approx \theta$ and neglecting the nonlinear term involving $\dot{\theta}^2$ in Eq. (1), Eqs. (1) and (2) can be rewritten in matrix form as:

$$\begin{bmatrix} (M+m) & m\ell/2 \\ m\ell/2 & (J_c + m\ell^2/4) \end{bmatrix} \begin{Bmatrix} \ddot{x} \\ \ddot{\theta} \end{Bmatrix} + \begin{bmatrix} c & 0 \\ 0 & 0 \end{bmatrix} \begin{Bmatrix} \dot{x} \\ \dot{\theta} \end{Bmatrix} + \begin{bmatrix} k & 0 \\ 0 & mg\ell/2 \end{bmatrix} \begin{Bmatrix} x \\ \theta \end{Bmatrix} = \begin{Bmatrix} F(t) \\ M_1(t) \end{Bmatrix}$$

Mechanical Vibrations Rao 4th Solution Manual

IM Harris



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