

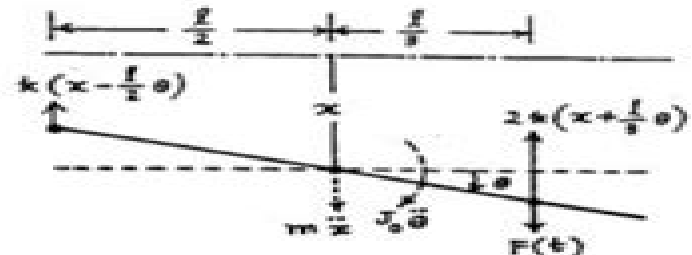
or

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

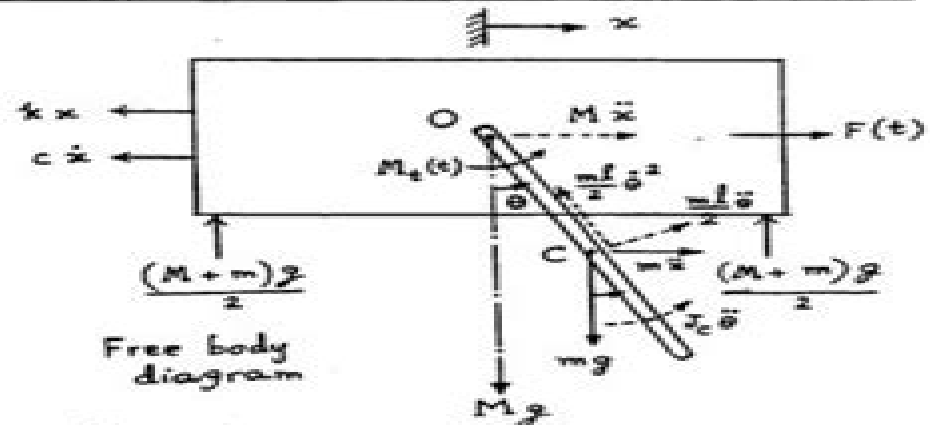
where $J_0 = \frac{m\ell^2}{12}$ and $F(t) = F_0 \sin \omega t$.

(b)

Elastic or static coupling.



5.42



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

For motion along x :

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

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 $\ddot{\theta}^2$ 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

Kathleen Armour



Mechanical Vibrations Rao 4th Solution Manual:

Structural Vibration C. Beards, 1996-05-31 Many structures suffer from unwanted vibrations and although careful analysis at the design stage can minimise these the vibration levels of many structures are excessive In this book the entire range of methods of control both by damping and by excitation is described in a single volume Clear and concise descriptions are given of the techniques for mathematically modelling real structures so that the equations which describe the motion of such structures can be derived This approach leads to a comprehensive discussion of the analysis of typical models of vibrating structures excited by a range of periodic and random inputs Careful consideration is also given to the sources of excitation both internal and external and the effects of isolation and transmissibility A major part of the book is devoted to damping of structures and many sources of damping are considered as are the ways of changing damping using both active and passive methods The numerous worked examples liberally distributed throughout the text amplify and clarify the theoretical analysis presented Particular attention is paid to the meaning and interpretation of results further enhancing the scope and applications of analysis Over 80 problems are included with answers and worked solutions to most This book provides engineering students designers and professional engineers with a detailed insight into the principles involved in the analysis and damping of structural vibration while presenting a sound theoretical basis for further study Suitable for students of engineering to first degree level and for designers and practising engineers Numerous worked examples Clear and easy to follow

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web kedisiplinan belajar pengertian kedisiplinan belajar disiplin merupakan tindakan yang menunjukkan perilaku tertib dan patuh pada berbagai ketentuan dan peraturan disiplin adalah suatu tata tertib yang dapat mengatur tatanan kehidupan pribadi dan kelompok disiplin timbul dari dalam jiwa karena adanya dorongan untuk menaati tata tertib

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web landasan teori 2 1 kedisiplinan belajar 2 1 1 pengertian kedisiplinan belajar kedisiplinan adalah kata sifat yang berasal dari kata dasar disiplin dan pengajaran pendidikan dan pembinaan dari keluarga dalam hal ini orang tua dan guru di sekolah untuk mengikuti dan menaati peraturan nilai hukum atau tata tertib yang berlaku

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web kedisiplinan berkenaan dengan kepatuhan dan ketaatan seseorang atau kelompok orang terhadap norma norma dan peraturan peraturan yang berlaku baik yang tertulis maupun yang tidak tertulis

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