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$$Y(x) = Y_0 \left(3 \frac{x}{\epsilon} - 4 \frac{x^3}{\epsilon^3}\right); \ 0 \le x \le \frac{\epsilon}{2}$$
where $Y_0 = \text{maximum deflection of the beam at middle } = \frac{F \epsilon^3}{48 E 1}$
Maximum strain energy of beam = maximum work done by force $F = \frac{1}{2} F Y_0$.
Maximum kinetic energy due to distributed mass of beam:
$$= 2 \left[\frac{1}{2} \frac{m}{\epsilon} \frac{\epsilon}{j} \dot{y}^2(x, t) \right]_{max} dx \right] + \frac{1}{2} \left(\dot{y}_{max} \right)^3 M$$

$$= \frac{m \omega_a^2}{\epsilon} \frac{f}{j} Y^2(x) dx + \frac{1}{2} \omega_a^2 Y_{max}^2 M$$

$$= \frac{m \omega_a^2}{\epsilon} \frac{f}{j} Y^2(x) dx + \frac{1}{2} \omega_a^2 Y_{max}^2 M$$

$$= \frac{m \omega_a^2}{\epsilon} \frac{f}{j} Y^2(x) dx + \frac{1}{2} \omega_a^2 Y_{max}^2 M$$

$$= \frac{m \omega_a^2}{\epsilon} \frac{f}{j} Y^2(x) dx + \frac{1}{2} \omega_a^2 Y_{max}^2 M$$

$$= \frac{m \omega_a^2}{\epsilon} \frac{f}{j} Y^2(x) \frac{1}{\epsilon^2} + 18 \frac{x^6}{\epsilon^4} - 24 \frac{x^4}{\epsilon^4} \right] (\frac{\epsilon}{\epsilon^2} + \frac{1}{2} Y_0^2 M \omega_a^2)$$

$$= \frac{1}{2} Y_0^2 \omega_a^2 \frac{1}{(\frac{12}{35} m + M)}$$
This shows that $m_{eff} = \frac{17}{35} m = 0.4857 m$

$$(2.75) For Small angular rotation of bar PQ about P,$$

$$\frac{1}{\epsilon} (x_{12})_{eg} (\theta I_3)^2 = \frac{1}{\epsilon} x_1(\theta I_1)^2 + \frac{1}{\epsilon} x_2(\theta I_2)^2$$

$$(x_{12})_{eg} = \frac{x_1 I_1^2 + x_2 I_2^2}{I_3^2}$$
Since $(k_{12})_{eg} and k_3 are in series$.
$$\frac{x_{eg}}{\epsilon} = \frac{(k_{12})_{eg} k_3}{(k_{12})_{eg} + k_2} = \frac{x_1 x_2 I_1^2 + x_2 I_2^2}{x_1 f_1^2 + x_2 I_2^2} + x_3 I_2^2$$

```
T = x_{inetic} energy = \pm m \dot{x}^2, U = potential energy = \pm x_{eq} x^2
If z = X cos what.
T_{\max} = \frac{1}{2} \operatorname{m} \omega_n^2 \times^2 \quad , \quad U_{\max} = \frac{1}{2} \operatorname{k_{eg}} \times^2
                                                 100
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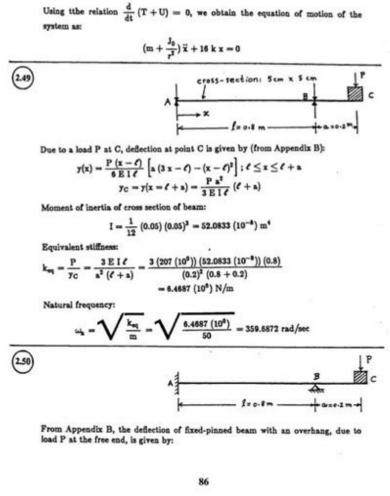
Chapter 4

Vibration Under General Forcing Conditions

(4,1) F	$F(t) = \frac{F_0}{\pi} + \frac{F_0}{2} \sin \omega t - \frac{2}{\pi} \frac{F_0}{n=2,4,6,\dots} \frac{1}{(n^2-1)} \cos n\omega t \text{where } \omega = \frac{2\pi}{2}$
,	$f(t) = \frac{F_0}{\pi \kappa} + \frac{F_0}{2\kappa} \cdot \frac{1}{\sqrt{(1 - r^2)^2 + (2\tau r)^2}} \sin (\omega t - \beta_1)$
	$= \frac{2 F_0}{\pi \kappa} \sum_{n=2,4,6,\dots} \frac{1}{(n^2 - 1)} \frac{1}{\sqrt{(1 - n^2 r^2)^2 + (2 T n r)^2}} \cos(n \omega t - \phi_n)$
	where $r = \omega'_{\omega_n}$, $\phi_1 = \tan^{-1}\left(\frac{2 \operatorname{Y} r}{1 - r^2}\right)$ and $\phi_n = \tan^{-1}\left(\frac{2 \operatorname{Y} n r}{1 - n^2 r^1}\right)$
(4.2) F	from the solution of problem 1.109, $\int (2 F_0 t/\tau) ; o \le t \le \frac{\tau}{2}$
	$F(t) = \begin{cases} (2F_0t/\gamma) ; & o \le t \le t/2 \\ -(2F_0t/\gamma) + aF_0 ; & t \le t \end{cases}$
	Fourier series representation of F(t) is
	$F(t) = \frac{F_0}{2} - \frac{4F_0}{\pi^2} \sum_{n=1,3,5,\dots}^{\infty} \frac{1}{n^2} \cos n\omega t$
	$\therefore x(t) = \frac{F_0}{2\pi} - \frac{4}{\pi^2 \pi} \sum_{n=1,3,\cdots}^{\infty} \frac{i}{\sqrt{(1-r^2n^2)^2 + (25nr)^2}} \frac{\cos(n\omega t - \beta_n)}{\sqrt{(1-r^2n^2)^2 + (25nr)^2}}$
2 <u>—0</u> —2	where $r = \frac{\omega}{\omega_n}$ and $p'_n = \tan^{-2}\left(\frac{2 \operatorname{Tn} r}{1 - n^2 r^2}\right)$.
43	$F(t) = \frac{8F_0}{\pi^2} \sum_{n=1,3,5,} (-1)^{\frac{n-1}{2}} \sin \frac{n\omega t}{n^2} \qquad \text{where } \omega = \frac{4\pi}{c}$
	$\begin{aligned} \mathbf{x}(t) &= \frac{8F_0}{\pi^2\kappa} \sum_{n=1,3,5,\dots} \frac{1}{n^2} (-1)^{\frac{n-1}{2}} \cdot \frac{1}{\sqrt{(1-n^2r^2)^2 + (2\gammanr)^2}} \sin(n\omega t - \phi_n) \\ &\text{where } r &= \frac{\omega}{\omega_n} \text{ and } \phi_n &= \tan^{-1}\left(\frac{2\gammanr}{1-n^2r^2}\right) \end{aligned}$
4.4	$F(t) = \frac{F_0}{2} + \frac{F_0}{\pi} \sum_{n=1,2,}^{\infty} \frac{1}{n} \sin n\omega t \text{where} \omega = \frac{2\pi}{t}$
	4-1

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where $\theta = \frac{x}{r}$, $x_s = \text{extension of spring} = 4 r \theta = 4 x$. Hence $T = \frac{1}{2} \left(m + \frac{J_0}{r^2}\right) \dot{x}^2 ; U = \frac{1}{2} \left(16 \text{ k}\right) x^2$



Mechanical vibrations rao 6th solution chapter 3. Mechanical vibration problems and solutions.

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