

$$a = \frac{x}{\ell_1} \frac{k_2}{k_1 + k_2}$$

$$c = \frac{x}{\ell_2} \frac{k_1}{k_1 + k_2}$$

$$d = \frac{k_2 x}{k_1 + k_2}$$

The kinetic energy of the left spring is

$$T_1 = \frac{1}{2} \frac{m_{s1}}{3} \dot{u}_1^2(\ell_1) = \frac{1}{2} \frac{m_{s1}}{3} \left(\frac{k_2}{k_1 + k_2} \right)^2 \dot{x}^2$$

Thus the contribution to the equivalent mass from the left spring is

$$m_{eq1} = \frac{m_{s1}}{3} \left(\frac{k_2}{k_1 + k_2} \right)^2$$

The displacement function in the right spring becomes

$$u_2(z_2) = \frac{x}{k_1 + k_2} \left(k_1 \frac{z_2}{\ell_2} + k_2 \right)$$



Consider a differential element of length dz_2 in the right spring, a distance z_2 from the spring's left end. The kinetic energy of the element is

$$dT_2 = \frac{1}{2} \frac{m_{s2}}{\ell_2} \dot{u}_2^2(z_2) dz_2$$

The total kinetic energy of the spring is

$$\begin{aligned} T_2 &= \frac{1}{2} \frac{m_{s2}}{\ell_2} \frac{\dot{x}^2}{(k_1 + k_2)^2} \int_0^{\ell_2} \left(k_1 \frac{z_2}{\ell_2} + k_2 \right)^2 dz_2 \\ &= \frac{1}{2} \frac{m_{s2}}{3} \frac{(k_1 + k_2)^2 - k_2^2}{k_1^2 (k_1 + k_2)^2} \dot{x}^2 \end{aligned}$$

Hence the equivalent mass of the series spring combination is

$$m_{eq} = \frac{1}{3(k_1 + k_2)^2} \left\{ k_2^2 m_{s1} + k_1^2 m_{s2} \left[\left(1 + \frac{k_2}{k_1} \right)^2 - \left(\frac{k_2}{k_1} \right)^2 \right] \right\}$$

Problem 2.27 illustrates the equivalent mass of springs in series.

Solutions Manual To Accompany Vibration Analysis

Ralph H. Petrucci, Robert K. Wismer



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