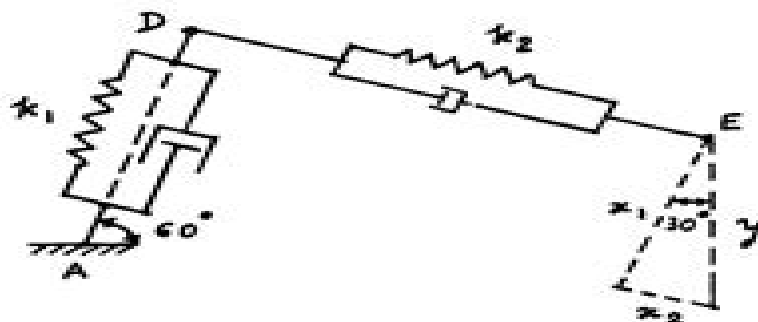


1.27



$$x_2 = y \sin 30^\circ$$

$$x_1 = y \cos 30^\circ$$

Equivalence of strain energies:

$$\frac{1}{2} k_{eq} y^2 = \frac{1}{2} k_2 x_2^2 + \frac{1}{2} k_1 x_1^2 = \frac{1}{2} k_1 y^2 \cos^2 30^\circ + \frac{1}{2} k_2 y^2 \sin^2 30^\circ$$

$$\text{i.e., } k_{eq} = \frac{3}{4} k_1 + \frac{1}{4} k_2$$

$$\text{with } k_1 = \frac{A_1 E_1}{\ell_1} = \frac{\frac{\pi}{4} (0.25^2 - 0.24^2) (200 \times 10^9)}{25} = 307,876.1 \text{ kN/m}$$

$$\text{and } k_2 = \frac{A_2 E_2}{\ell_2} = \frac{\frac{\pi}{4} (0.18^2 - 0.17^2) (200 \times 10^9)}{1.9} = 289,357.2 \text{ kN/m}$$

$$k_{eq} = \frac{3}{4} k_1 + \frac{1}{4} k_2 = 303,246.4 \text{ kN/m}$$

Similarly, the equivalent damping constant can be found as (using equivalence of kinetic energy):

$$C_{eq} = \frac{3}{4} c_1 + \frac{1}{4} c_2 = 65.5 \text{ N} \cdot \text{s/m}$$

1.28

Outer diameter: 7.5 mm

Inner diameter: 7.3 mm

Length: 1 m

Solution: stainless steel:

$$E = 200 \text{ GPa,}$$

$$G = 83 \text{ GPa,}$$

for each tube

$$D = 7.5 \text{ mm, } d = 7.3 \text{ mm, } \ell = 1 \text{ m}$$

Mechanical Vibrations Rao 4th Solution Manual

A Gutmann



Mechanical Vibrations Rao 4th Solution Manual:

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