

Chapter 1 Solutions

Problem 1.3-1

$$L = 4.25\text{m} \quad q_0 = 175 \frac{\text{N}}{\text{m}} \quad P = 225\text{N} \quad M_0 = 410\text{N}\cdot\text{m}$$

Reactions

$$\Sigma F_x = 0 \quad B_x = \frac{3}{5} \cdot P = 135\text{N}$$

$$\Sigma M_A = 0 \quad B_y = \frac{1}{L} \left[-M_0 + \left(\frac{1}{2} \cdot q_0 \right) \cdot L \cdot \left(\frac{2 \cdot L}{3} \right) + \frac{4}{5} \cdot P \cdot \left(L + \frac{L}{2} \right) \right] = 421.446\text{N}$$

$$\Sigma F_y = 0 \quad A_y = \left(\frac{1}{2} \cdot q_0 \right) \cdot L + \frac{4}{5} \cdot P - B_y = 130.429\text{N}$$

N, V and M at midspan of AB - LHFB is used below

$$N_{\text{mid}} = 0$$

$$V_{\text{mid}} = A_y - \frac{1}{2} \cdot \frac{q_0}{2} \cdot \frac{L}{2} = 37.46\text{N}$$

$$M_{\text{mid}} = -M_0 + A_y \cdot \frac{L}{2} - \frac{1}{2} \cdot \frac{q_0}{2} \cdot \frac{L}{2} \cdot \left(\frac{1}{3} \cdot \frac{L}{2} \right) = -198.691\text{N}\cdot\text{m}$$

Mechanics Of Materials 8th Edition Solutions Chapter 1

B Lingard



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