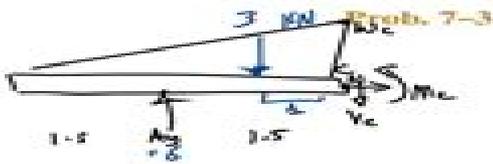


7-3. Determine the internal normal force, shear force, and moment at point C in the double-overhang beam.



$$\begin{aligned} \sum F_x = 0 &= A_x \\ \sum M_B = 0 &= -A_y(3) + \frac{3(4.5)(1.5)}{2} - \frac{3(1.5)(0.5)}{2} \\ \boxed{A_y = 3 \text{ kN } \uparrow} \end{aligned}$$

2)



$$\begin{aligned} w_c &: \frac{w_c}{3} = \frac{3}{4.5} \\ w_c &= 2 \text{ kN/m} \\ F_R &= \frac{2(3)}{2} = 3 \text{ kN } \downarrow \\ \text{at } x &= \frac{1}{3}(3) = 1 \text{ m from C} \end{aligned}$$

$$\begin{aligned} +\uparrow \sum F_y = 0 &= -V_c - 3 + 3 + \boxed{V_c = 0} \\ +\curvearrowright \sum M_c = 0 &= M_c + 3(1) - \frac{3}{2}(1.5) \end{aligned}$$

$$\rightarrow \boxed{M_c = 1.5 \text{ kN}\cdot\text{m} (\curvearrowleft)}$$

$$\sum F_x = 0 = N_c$$

Engineering Mechanics Problems And Solutions Beams

Isaac E Elishakoff



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