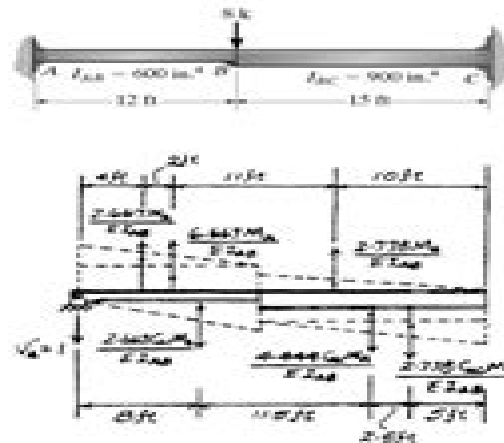


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13-2. Determine the stiffness K_{AC} and carry-over factor C_{AC} for the beam. Assume A and C are fixed supports.

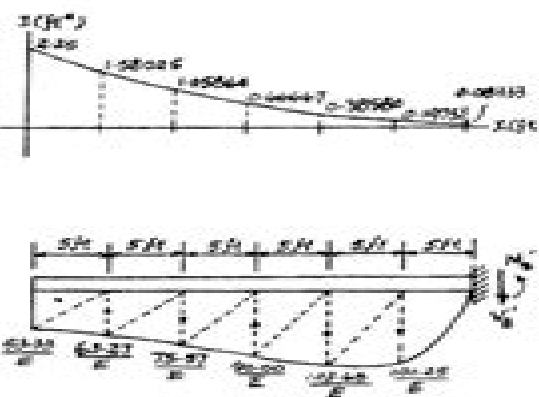
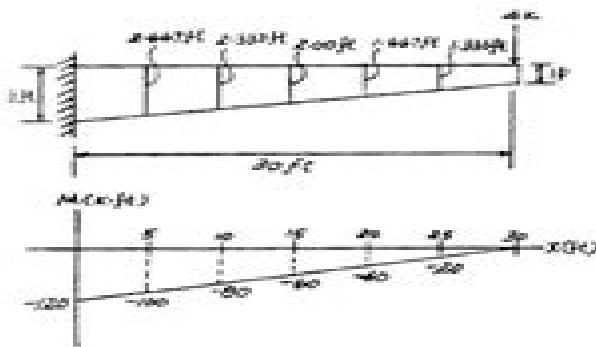
$$\begin{aligned} +\sum EI\theta &= 0 & +2.111M_0 - 9.889C_{AC}M_0 &= 0 \Rightarrow C_{AC} \\ -\sum M_0 &= 0 & 97.889M_0 - 169.111C_{AC}M_0 &= 0 \\ & & K_{AC} = M_0 &= 0.1566(29 \times 10^3) \frac{500}{144} \\ & & &= 18.9(10^3) \text{ k} \cdot \text{ft} \quad \text{Ans} \\ \text{COF} = C_{AC} &= 0.579 \quad \text{Ans} \end{aligned}$$



13-3. Determine the slope at the end B of the cantilever beam. The cross section is rectangular and has a constant width of 1 ft. Segment the beam every 5 ft for the calculation. Take $E = 29(10^3)$ ksi.



$$\begin{aligned} +\sum EI\theta &= 0 & -\theta_B &= \left(\frac{1}{2}\right)\left(\frac{33.33}{E}\right)(5) - \left(\frac{63.27}{E}\right)(5) - \left(\frac{75.57}{E}\right)(5) - \left(\frac{90.00}{E}\right)(5) - \left(\frac{105.68}{E}\right)(5) \\ & & &= \left(\frac{101.23}{E}\right)(5) = 0 \\ \theta_B &= -\frac{1012.3}{E} = -\frac{1012.3}{29(10^3)(144)} = -0.000551 \text{ rad} \quad \text{Ans} \end{aligned}$$



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