

SOLUTION:

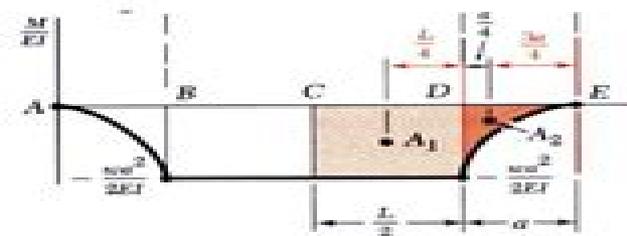
- Determine the reactions at supports.

$$R_B = R_D = wa$$

- Construct shear, bending moment and (M/EI) diagrams.

$$A_1 = -\frac{wa^2}{2EI} \left(\frac{L}{2} \right) = -\frac{wa^2L}{4EI}$$

$$A_2 = -\frac{1}{3} \left(\frac{wa^2}{2EI} \right) (a) = -\frac{wa^3}{6EI}$$



- Slope at E:

$$\theta_E = \theta_C + \theta_{E/C} = \theta_{E/C}$$

$$= A_1 + A_2 = -\frac{wa^2L}{4EI} - \frac{wa^3}{6EI}$$

$$\theta_E = -\frac{wa^2}{12EI} (3L + 2a)$$

- Deflection at E:

$$y_E = t_{E/C} - t_{D/C}$$

$$= \left[A_1 \left(a + \frac{L}{4} \right) + A_2 \left(\frac{3a}{4} \right) \right] - \left[A_1 \left(\frac{L}{4} \right) \right]$$

$$= \left[-\frac{wa^3L}{4EI} - \frac{wa^2L^2}{16EI} - \frac{wa^4}{8EI} \right] - \left[-\frac{wa^2L^2}{16EI} \right]$$

$$y_E = -\frac{wa^3}{8EI} (2L + a)$$



Structural Mechanics Analysis

Guillaume Favre



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