

# Advanced Mechanics of Materials (2nd Edition)

## PROBLEM 9.29 (Continued)

$$C_4 = \left( \frac{1}{384} - \frac{1}{768} - \frac{1}{384} \right) wL^4 = -\frac{1}{768} wL^4$$

$$[x = L, y = 0]$$

$$\frac{1}{2}M_A L^2 + \frac{1}{6}R_A L^3 + \frac{1}{12}wL \left( \frac{3L}{4} \right)^3 - \frac{1}{24}w \left( \frac{L}{2} \right)^4 + \frac{1}{192}wL^3(L) - \frac{1}{768}wL^4 = 0$$

$$\frac{1}{2} \left( R_B L - \frac{1}{4}wL^2 \right) L^2 + \frac{1}{6}(-R_B)L^3 + \left( \frac{27}{768} - \frac{1}{384} + \frac{1}{192} - \frac{1}{768} \right) wL^4 = 0$$

$$\left( \frac{1}{2} - \frac{1}{6} \right) R_B L^3 = \left( \frac{1}{8} - \frac{7}{192} \right) wL^4 \quad \frac{1}{3}R_B = \frac{17}{192}wL \quad R_B = \frac{17}{64}wL \uparrow \blacktriangleleft$$

$$R_A = -R_B = -\frac{17}{64}wL$$

$$M_A = R_B L - \frac{1}{4}wL^2 = \left( \frac{17}{64} - \frac{1}{4} \right) wL^2 = \frac{1}{64}wL^2$$

Deflection at C.

$$\left( y \text{ at } x = \frac{L}{2} \right)$$

$$EIy_C = \frac{1}{2}M_A \left( \frac{L}{2} \right)^2 + \frac{1}{6}R_A \left( \frac{L}{2} \right)^3 + \frac{1}{24}w \left( \frac{L}{2} \right)^4$$

$$= \frac{1}{2} \left( \frac{1}{64}wL^2 \right) \left( \frac{L}{2} \right)^2 + \frac{1}{6} \left( -\frac{17}{64}wL \right) \left( \frac{L}{2} \right)^3 + \frac{1}{24}w \left( \frac{L}{2} \right)^4$$

$$= \left( \frac{1}{512} - \frac{17}{3072} + \frac{1}{384} \right) wL^4 = -\frac{1}{1024}wL^4 \quad y_C = \frac{1}{1024} \frac{wL^4}{EI} \downarrow \blacktriangleleft$$

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