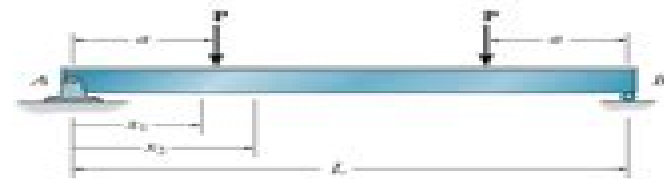


***8-1.** Determine the equations of the elastic curve for the beam using the x_1 and x_2 coordinates. Specify the slope at A and the maximum deflection. EI is constant.



$$EI \frac{d^2v}{dx^2} = M(x)$$

For $M_1(x) = Px_1$

$$EI \frac{d^2v_1}{dx_1^2} = Px_1$$

$$EI \frac{dv_1}{dx_1} = \frac{Px_1^2}{2} + C_1$$

$$EI v_1 = \frac{Px_1^3}{6} + C_1 x_1 + C_2$$

For $M_2(x) = Pa$

$$EI \frac{d^2v_2}{dx_2^2} = Pa$$

$$EI \frac{dv_2}{dx_2} = Pa x_2 + C_3$$

$$EI v_2 = \frac{Pa x_2^2}{2} = C_3 x_2 + C_4$$

Boundary conditions:

$$v_1 = 0 \quad \text{at} \quad x = 0$$

From Eq. (2)

$$C_2 = 0$$

Due to symmetry:

$$\frac{dv_1}{dx_1} = 0 \quad \text{at} \quad x_1 = \frac{L}{2}$$

From Eq. (3)

$$0 = Pa \frac{L}{2} + C_3$$

$$C_3 = -\frac{PaL}{2}$$

Continuity conditions:

$$v_1 = v_2 \quad \text{at} \quad x_1 = x_2 = a$$

$$\frac{Pa^3}{6} + C_1 a = \frac{Pa^3}{2} - \frac{Pa^3 L}{2} + C_4$$

$$C_1 a + C_4 = \frac{Pa^3}{2} - \frac{Pa^3 L}{2}$$

$$\frac{dv_1}{dx_1} = \frac{dv_2}{dx_2} \quad \text{at} \quad x_1 = x_2 = a$$

$$(1)$$

$$(2)$$

$$(3)$$

$$(4)$$



Solutions To Chapter Problems

S Nieto



Solutions To Chapter Problems:

Decoding **Solutions To Chapter Problems**: Revealing the Captivating Potential of Verbal Expression

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