

**SOLUTION:**

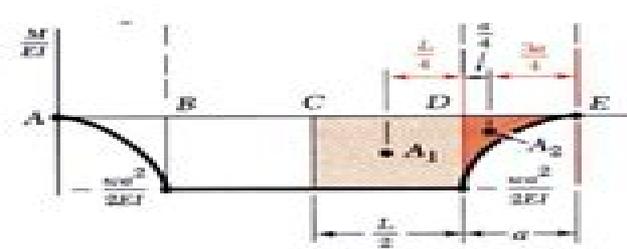
- Determine the reactions at supports.

$$R_B = R_D = wa$$

- 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

**Padhraic Smyth**



## **Structural Mechanics Analysis:**

## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Structural Mechanics Analysis**

In some sort of inundated with displays and the cacophony of quick connection, the profound power and mental resonance of verbal artistry frequently fade in to obscurity, eclipsed by the regular assault of noise and distractions. However, situated within the musical pages of **Structural Mechanics Analysis**, a charming function of literary splendor that impulses with raw emotions, lies an remarkable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this exciting opus books visitors on a psychological odyssey, gently exposing the latent possible and profound influence stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is key subjects, dissect their captivating publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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