

Problem 01

Given:

Length of bar = L

Cross-sectional area = A

Unit mass = ρ

The bar is suspended vertically from one end

→ **Required:**

Show that the total elongation $\delta = \rho g L^2 / 2E$.

If total mass is M, show that $\delta = MgL/2AE$

Solution:

$$\delta = \frac{PL}{AE}$$

From the figure:

$$\delta = d\delta$$

$$P = Wy = (\rho Ay)g$$

$$L = dy$$

$$d\delta = \frac{(\rho Ay)g dy}{AE}$$

$$\delta = \frac{\rho g}{E} \int_0^L y dy = \frac{\rho g}{E} \left[\frac{y^2}{2} \right]_0^L$$

$$\delta = \frac{\rho g}{2E} [L^2 - 0^2]$$

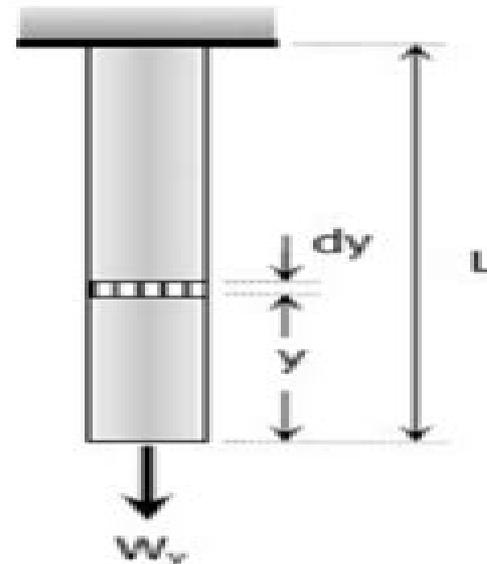
$$\delta = \rho g L^2 / 2E \text{ ok!}$$

Given the total mass M

$$\rho = M/V = M/AL$$

$$\delta = \frac{\rho g L^2}{2E} = \frac{M}{AL} \cdot \frac{gL^2}{2E}$$

$$\delta = \frac{MgL}{2AE} \text{ ok!}$$



Strength Of Materials A Problem Approach

Albert A Gayle



Strength Of Materials A Problem Approach:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Strength Of Materials A Problem Approach**

In a world inundated with screens and the cacophony of quick interaction, the profound energy and emotional resonance of verbal artistry often disappear into obscurity, eclipsed by the continuous assault of noise and distractions. Yet, set within the lyrical pages of **Strength Of Materials A Problem Approach**, a fascinating work of literary elegance that pulses with raw emotions, lies an memorable trip waiting to be embarked upon. Published by a virtuoso wordsmith, this interesting opus instructions readers on a mental odyssey, delicately exposing the latent possible and profound influence embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is key subjects, dissect their captivating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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