

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:

$$\delta = d\delta$$

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

$$L = dy$$

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

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

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

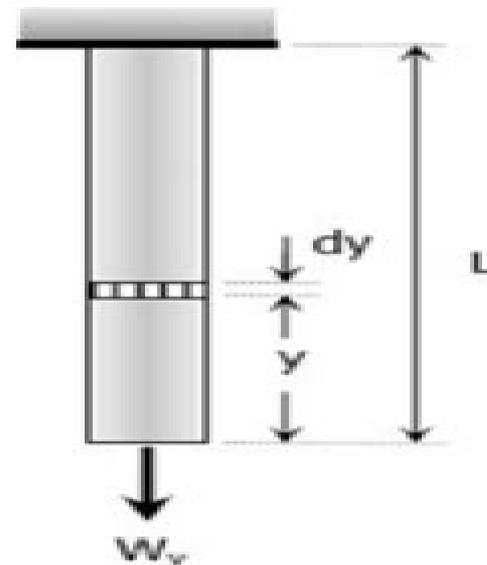
$$\delta = \rho g L^2 / 2E \text{ ok!}$$

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

M Planty



Strength Of Materials A Problem Approach:

Whispering the Strategies of Language: An Mental Quest through **Strength Of Materials A Problem Approach**

In a digitally-driven earth wherever displays reign supreme and quick conversation drowns out the subtleties of language, the profound secrets and psychological nuances hidden within phrases usually go unheard. Yet, situated within the pages of **Strength Of Materials A Problem Approach** a fascinating literary prize sporting with organic thoughts, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, that marvelous opus invites viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very fabric of each and every word. Within the psychological depths of this moving review, we shall embark upon a sincere exploration of the book is core subjects, dissect its charming writing type, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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