

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:

$$\delta = d\delta$$

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

$$L = dy$$

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

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

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

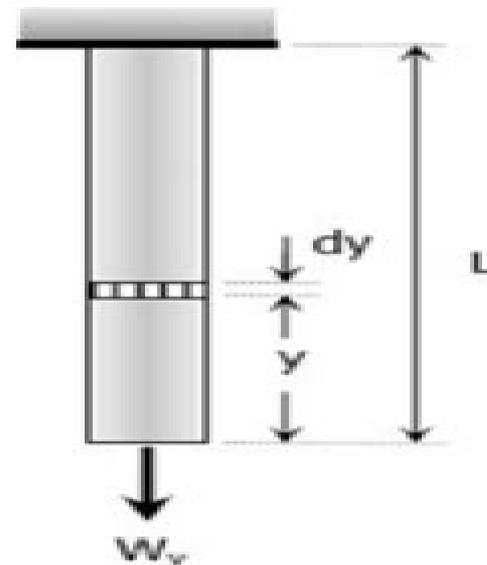
$$\delta = \rho g L^2 / 2E \text{ ok!}$$

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

Chao Zhang



Strength Of Materials A Problem Approach:

Decoding **Strength Of Materials A Problem Approach**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Strength Of Materials A Problem Approach**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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