

**Problem 01**

**Given:**

Length of bar = L

Cross-sectional area = A

Unit mass =  $\rho$

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:

$$\delta = d\delta$$

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

$$L = dy$$

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

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

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

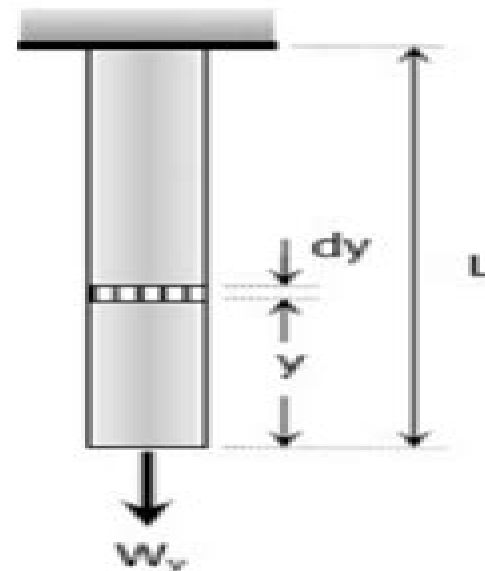
$$\delta = \rho g L^2 / 2E \text{ ok!}$$

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

**J Rink**



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conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months.  
· 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.