



Fig. 1. Schematic diagram of a rectangular box with dimensions L , W , and H . The box is oriented with L as length, W as width, and H as height.

Assuming that the box is filled with a material of density ρ , the weight of the box is given by:

Weight of box = $\rho \times \text{Volume of box}$

$\rho = \frac{\text{Weight of box}}{\text{Volume of box}}$ (Equation 1)

$\rho = \frac{\text{Weight of box}}{L \times W \times H}$ (Equation 2)

$\rho = \frac{W}{L \times W \times H}$ (Equation 3)

From Equations 1, 2, and 3, we can derive the following equation for the weight of the box:

Eq. 1: $\rho = \frac{W}{L \times W \times H}$ (Equation 1) (Equation 2) (Equation 3)

Equation 4:



Fig. 2. Schematic diagram of a rectangular box with dimensions L , W , and H . The box is oriented with L as length, W as width, and H as height.

Fig. 3. Schematic diagram of a rectangular box with dimensions L , W , and H . The box is oriented with L as length, W as width, and H as height.

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Mechanics Of Materials Solution Manual 6th Edition Beer Scribd

Egor Paul Popov



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