

Given: Pet food can  $H = 102 \pm 1 \text{ mm}$  (20 to 1)  
 $D = 73 \pm 1 \text{ mm}$  (20 to 1)  
 $m = 397 \pm 1 \text{ g}$  (20 to 1)

Find: Magnitude and estimated uncertainty of pet food density.

Solution: Density is  $\rho = \frac{m}{V} = \frac{m}{\pi R^2 H} = \frac{4}{\pi} \frac{m}{D^2 H}$  or  $\rho = \rho(m, D, H)$

From uncertainty analysis

$$u_\rho = \pm \left[ \left( \frac{m}{\rho} \frac{\partial \rho}{\partial m} u_m \right)^2 + \left( \frac{D}{\rho} \frac{\partial \rho}{\partial D} u_D \right)^2 + \left( \frac{H}{\rho} \frac{\partial \rho}{\partial H} u_H \right)^2 \right]^{\frac{1}{2}}$$

Evaluating,  $\frac{m}{\rho} \frac{\partial \rho}{\partial m} = \frac{m}{\rho} \frac{4}{\pi} \frac{1}{D^2 H} = \frac{1}{\rho} \frac{4m}{\pi D^2 H} = 1$ ;  $u_m = \frac{\pm 1}{397} = \pm 0.252\%$

$$\frac{D}{\rho} \frac{\partial \rho}{\partial D} = \frac{D}{\rho} (-2) \frac{4m}{\pi D^2 H} = (-2) \frac{1}{\rho} \frac{4m}{\pi D^2 H} = -2$$
;  $u_D = \frac{\pm 1}{73} = \pm 1.37\%$

$$\frac{H}{\rho} \frac{\partial \rho}{\partial H} = \frac{H}{\rho} (-1) \frac{4m}{\pi D^2 H} = (-1) \frac{1}{\rho} \frac{4m}{\pi D^2 H} = -1$$
;  $u_H = \frac{\pm 1}{102} = \pm 0.980\%$

Substituting

$$u_\rho = \pm \left\{ [(1)(0.252)]^2 + [(-2)(1.37)]^2 + [(-1)(0.980)]^2 \right\}^{\frac{1}{2}}$$

$$u_\rho = \pm 2.92 \text{ percent}$$

$u_\rho$

$$V = \frac{\pi}{4} D^2 H = \frac{\pi}{4} \times (73)^2 \text{ mm}^2 \times 102 \text{ mm} \times \frac{\text{m}^3}{10^9 \text{ mm}^3} = 4.27 \times 10^{-4} \text{ m}^3$$

$$\rho = \frac{m}{V} = \frac{397 \text{ g}}{4.27 \times 10^{-4} \text{ m}^3} \times \frac{\text{kg}}{1000 \text{ g}} = 930 \text{ kg/m}^3$$

Thus  $\rho = 930 \pm 27.2 \text{ kg/m}^3$  (20 to 1)

$\rho$

# Fluid Mechanics Fox 5th Solution Manual

**D Kirk**



## **Fluid Mechanics Fox 5th Solution Manual:**

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