1.36

1.36 Determine the mass of air in a 2 m³ tank if the air is at room temperature, 20 °C, and the absolute pressure within the tank is 200 kPa (abs).

$$m = \rho V$$
 where $V = 2m^3$ and $\rho = \rho / RT$ with $T = 20^{\circ}C = (20 + 273) K = 293 K$ and $\rho = 200 \, k \, P_4 = 200 \times 10^3 \, \frac{N}{m^2}$ Thus, $\rho = (200 \times 10^3 \, \frac{N}{m^2}) / \left[(2.869 \times 10^2 \, \frac{N \cdot m}{kg \cdot K}) (293 \, K) \right] = 2.38 \, \frac{kg}{m^3}$ Hence, $\rho = \rho V = 2.38 \, \frac{kg}{m^3} (2m^3) = \frac{4.76 \, kg}{4.76 \, kg}$

<u>Fundamentals Of Fluid Mechanics Munson Solution</u> <u>Manual 6th Edition</u>

Arthur James Wells

Fundamentals Of Fluid Mechanics Munson Solution Manual 6th Edition:

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