

PHYSICS I: Fluid Mechanics

Class notes: Topic, rules, and formula. From the formula given, you can derive the equations.

- ❖ The **density** of a substance is simply the ratio of its mass to its volume. It also dictates if the substance (solid or fluid) sinks or floats in a mixture with a fluid.

$$\rho = \frac{m}{V}$$

- ❖ The **specific density** (also referred to as *relative density* or *specific gravity*) is a dimensionless quantity that relates the density of a substance relative to a reference.

$$\text{specific gravity} = \frac{\rho(\text{substance})}{\rho(\text{reference})}$$

- ❖ For solids and liquids, the reference substance is water at 4 °C ($\rho = 1000 \text{ kg/m}^3$). For gases, the reference substance used is oxygen at 0 °C and 1 atm pressure ($\rho = 1.43 \text{ kg/m}^3$).

- ❖ **Pressure** refers to the force exerted per unit area. For fluids, this physical quantity is dependent on the fluid height, not volume.

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

- ❖ For fluids, pressure values vary depending on the method used. Typical pressure readings report the fluid's **gauge pressure**, whereas the fluid's **absolute pressure** is the sum of the gauge pressure and the pressure of its environment (typically air).

$$\text{Gauge pressure} \quad P_g = \rho g h$$

$$\text{Absolute pressure} \quad P_{\text{abs}} = P_g + \rho g h$$

$$\text{Barometric pressure}$$

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