

CHAPTER 2

Force and Weight:

$$F = \frac{ma}{g_c}, \quad W = \frac{mg}{g_c}$$

Standard Acceleration of Gravity:

$$g = 9.80665 \text{ m/s}^2 = 980.665 \text{ cm/s}^2 = 32.174 \text{ ft/s}^2$$

$$g_c \text{ (gravitational conversion factor)} = 1 \text{ kg}\cdot\text{m}\cdot\text{s}^{-2}/\text{N} = 32.174 \text{ lb}_m\cdot\text{ft}\cdot\text{s}^{-2}/\text{lb}_f = 980.665 \text{ g}_m\cdot\text{cm}\cdot\text{s}^{-2}/\text{g}_f$$

Two Point Linear Interpolation:

$$y = y_1 + \frac{x - x_1}{x_2 - x_1}(y_2 - y_1)$$

Finding a Straight Line:

$$y = mx + b, \quad \text{SLOPE, } m = \frac{y_2 - y_1}{x_2 - x_1}, \quad \text{INTERCEPT, } b = \begin{cases} y_1 - mx_1 \\ y_2 - mx_2 \end{cases}$$

Method of Least Squares:

$$x_c = \frac{\frac{1}{n} \sum_{i=1}^n x_i}{\frac{1}{n} \sum_{i=1}^n x_i^2}, \quad x_c = \frac{\frac{1}{n} \sum_{i=1}^n x_i^2}{\frac{1}{n} \sum_{i=1}^n x_i^3}$$

$$x_c = \frac{\frac{1}{n} \sum_{i=1}^n x_i}{\frac{1}{n} \sum_{i=1}^n x_i^2}, \quad x_c = \frac{\frac{1}{n} \sum_{i=1}^n x_i^2}{\frac{1}{n} \sum_{i=1}^n x_i^3}$$

$$\text{SLOPE} = \frac{y_c - x_c y_{\text{avg}}}{x_c - (x_{\text{avg}})}, \quad \text{INTERCEPT} = \frac{y_c x_c - x_c y_{\text{avg}}}{x_c - (x_{\text{avg}})}$$

CHAPTER 3

$$\text{SG} = \rho/\rho_{\text{ref}}$$

$$\rho_{\text{ref (water)}} = 1.000 \text{ g/cm}^3 = 1000 \text{ kg/m}^3 = 62.43 \text{ lb}_m/\text{ft}^3$$

$$\text{Mass Fraction } x_i = \frac{\text{mass of } A_i}{\text{total mass}}, \quad \text{Mole Fraction } y_i = \frac{\text{mole of } A_i}{\text{total mole}}$$

$$\text{Average Molecular Weight } \bar{M} = \frac{M}{n} = \frac{\text{total mass of sample}}{\text{total moles in sample}}$$

$$\bar{M} = x_1 M_1 + x_2 M_2 + \dots \rightarrow \frac{\sum x_i M_i}{\sum x_i}$$

$$\frac{1}{\bar{M}} = \frac{x_1}{M_1} + \frac{x_2}{M_2} + \dots \rightarrow \frac{\sum \frac{x_i}{M_i}}{\sum x_i}$$

Pressure:

$$\text{Hydrostatic Pressure: } P = P_0 + \rho \frac{P_0}{\rho_0} h$$

$$\text{Head of Fluid: } P \text{ (head of fluid)} = \rho_{\text{ref}} h_{\text{ref}}$$

$$P_{\text{total}} = P_{\text{static}} + P_{\text{dynamic}}$$

$$\text{General Manometer Equation: } P_1 + \rho_1 \frac{P_0}{\rho_0} h_1 = P_2 + \rho_1 \frac{P_0}{\rho_0} h_2 + \rho_2 \frac{P_0}{\rho_0} h$$

$$\text{Differential Manometer Equation: } P_1 - P_2 = \left(\rho_2 - \rho_1 \right) \frac{P_0}{\rho_0} h$$

$$\text{Manometer Formula for Gases: } P_1 - P_2 = 0$$

$$\text{Temperatures: } \text{TR}(K) = \text{TR}(^\circ\text{C}) + 273.15, \quad \text{TR}(K) = \text{TR}(^\circ\text{F}) + 459.67, \quad \text{TR}(K) = 1.8 \text{TR}(^\circ\text{R}), \quad \text{TR}(^\circ\text{F}) = 1.8 \text{TR}(^\circ\text{C}) + 32$$

$$1.8K = 1.8^\circ\text{C} = 1.8^\circ\text{R} = 1.8^\circ\text{F}$$

Chemical Engineering Formula Sheet

F Rizvi



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