

## CHAPTER 2

**Force and Weight:**

$$F = ma / g_c, \quad W = mg / g_c$$

**Standard Acceleration of Gravity:**

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

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

**Two Point Linear Interpolation:**

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

**Finding a Straight Line:**

$$y = ax + b, \quad \text{SLOPE } a = \frac{y_2 - y_1}{x_2 - x_1}, \quad \text{INTERCEPT } b = \frac{y_1 - ax_1}{x_1 - x_1} = \frac{y_1 - ax_1}{0}$$

**Method of Least Squares:**

$$a = \frac{\sum xy}{\sum x^2}, \quad b = \frac{\sum y}{\sum x}$$

$$a = \frac{\sum xy}{\sum x^2}, \quad b = \frac{\sum y}{\sum x}$$

$$\text{SLOPE } a = \frac{y_2 - y_1}{x_2 - x_1}, \quad \text{INTERCEPT } b = \frac{y_1 - ax_1}{x_1 - x_1}$$

## CHAPTER 3

**SI = MKS**

$$F_{\text{SI}} = 9.80665 \text{ N} = 9.80665 \text{ kg}\cdot\text{m/s}^2 = 98.0665 \text{ lb}_f$$

$$\text{Mass Fraction } x = \frac{\text{mass of } A}{\text{total mass}}, \quad \text{Mole Fraction } y = \frac{\text{moles of } A}{\text{total moles}}$$

**Average Molecular Weight**  $\bar{M} = \frac{\sum n_i M_i}{\sum n_i} = \frac{\text{total mass of sample}}{\text{total moles in sample}}$

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

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

**Pressure:**

Hydrostatic Pressure:  $P = \rho g h$

Head of Fluid:  $P(\text{head of fluid}) = \rho g h$

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

General Manometer Equation:  $P_1 + \rho_1 \frac{P_1}{\rho_1} h_1 = P_2 + \rho_2 \frac{P_2}{\rho_2} h_2 + \rho_3 \frac{P_3}{\rho_3} h_3$

Differential Manometer Equation:  $P_1 - P_2 = (\rho_3 - \rho_1) \frac{P_3}{\rho_3} h_3$

Manometer Formula for Gases:  $P_1 - P_2 = 0$

**Temperature:**

$$T(\text{K}) = T(\text{C}) + 273.15, \quad T(\text{R}) = T(\text{F}) + 459.67, \quad T(\text{R}) = 1.8 T(\text{K}), \quad T(\text{F}) = 1.8 T(\text{C}) + 32$$

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

# Chemical Engineering Formula Sheet

**LM Reder**



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