

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:

$$y = ax + b, \quad \text{SLOPE } a = \frac{y_2 - y_1}{x_2 - x_1}, \quad \text{INTERCEPT } b = \frac{y_1 - ax_1}{1 - ax_1}$$

Method of Least Squares:

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

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

$$\text{SLOPE } a = \frac{y_2 - y_1}{x_2 - x_1}, \quad \text{INTERCEPT } b = \frac{y_1 - ax_1}{1 - ax_1}$$

CHAPTER 3

SI = gPa

$$P_{\text{atmospheric}} = 1.01325 \text{ gPa} = 1.01325 \text{ gPa} = 101.325 \text{ kPa}$$

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

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: $P_1 + \rho g z_1 = P_2 + \rho g z_2 + \rho g \frac{P_2 - P_1}{\rho g}$

Differential Manometer Equation: $P_1 - P_2 = \rho g (z_2 - z_1) \frac{P_2 - P_1}{\rho g}$

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

Temperature:

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

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

Chemical Engineering Formula Sheet

Jin-Ying Zhang



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