

## CHAPTER 2

**Force and Weight:**

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

**Standard Acceleration of Gravity:**

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

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

**Two Point Linear Interpolation:**

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

**Finding a Straight Line:**

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

**Method of Least Squares:**

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

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

$$\text{SLOPE } a = \frac{\sum xy - \frac{(\sum x)(\sum y)}{n}}{\sum x^2 - \frac{(\sum x)^2}{n}}, \quad \text{INTERCEPT } b = \frac{\sum y - \frac{(\sum x)(\sum y)}{n}}{\sum x - \frac{(\sum x)^2}{n}}$$

## CHAPTER 3

**SI = g/g<sub>c</sub>**

$$F_c = m\omega^2 r = 1.000 \text{ g}\cdot\text{cm/s}^2 = 1.000 \text{ kg}\cdot\text{m/s}^2 = 92.40 \text{ lb}_m\cdot\text{ft/s}^2$$

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

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

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

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

**Pressure:**

Hydrostatic Pressure:  $F = \rho \cdot g \cdot h$

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

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

General Manometer Equation:  $P_1 + \rho_1 \frac{P_1}{g} z_1 = P_2 + \rho_2 \frac{P_2}{g} z_2 + \rho_3 \frac{P_3}{g} z_3$

Differential Manometer Equation:  $P_1 - P_2 = (\rho_2 - \rho_1) \frac{P_2}{g} z$

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

**RD Boyd**



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**Chemical Engineering Catalog** ,1919 *Process Engineering Renewal 1* Éric Schaer, Jean-Claude André, 2020-04-09 Process engineering emerged at the beginning of the 20th Century and has become an essential scientific discipline for the matter and energy processing industries Its success is incontrovertible with the exponential increase in techniques and innovations Rapid advances in new technologies such as artificial intelligence as well as current societal needs sustainable development climate change renewable energy the environment are developments that must be taken into account in industrial renewal *Process Engineering Renewal 1* the first volume of three focuses on training demonstrating the need for innovation in order for the field to have a framework that is sustainable in a highly changeable world **Popular Mechanics** ,1947-06 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Active Pharmaceutical Ingredient Manufacturing* Girish K. Malhotra, 2022-04-19 The book reviews the history of current brand and generic business in pharmaceuticals manufacturing practices Based on examples the reader can interpolate extrapolate and exploit mutual behavior physical and chemical properties of chemicals to design and commercialize processes that fulfill the demands also manipulate chemical unit processes and unit operations to reduce minimize effluents and lower environmental impact i e reduce global warming Readers will be able to simplify process development design and commercialize economic manufacturing processes **Industrial & Engineering Chemistry** ,1923 **Industrial and Engineering Chemistry** ,1923 **Engineering Index Annual** ,1927 Engineering Record, Building Record and Sanitary Engineer Henry Coddington Meyer, Charles Frederick Wingate, 1897 *The Engineering Record, Building Record and the Sanitary Engineer* ,1908 **Mining and Chemical Engineering Review** ,1920 **Chemical Abstracts** ,1920 **Everyday Engineering Magazine** ,1919 **Engineering Index** ,1927 *Metallurgical & Chemical Engineering* Eugene Franz Roeber, Howard Coon Parmelee, 1915 **500 Plain Answers to Direct Questions on Steam, Hot Water, Vapor and Vacuum Heating** Alfred Grant King, 1915 **The Chemical Trade Journal and Chemical Engineer** ,1925 The Chemical Trade Journal and Chemical Engineer G Kelville Davis, 1925 **Women of Color In STEM** Beverly Irby, Nahed Abdelrahman, Barbara Polnick, Julia Ballenger, 2021-04-08 Despite increased representation in law and business women in STEM fields face barriers like stereotypes gender bias and departmental climate issues This book addresses the challenges faced by women of color in STEM higher education The American Year Book ,1911

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