

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:

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

$$a = \frac{\sum xy - \frac{(\sum x)(\sum y)}{n}}{\sum x^2 - \frac{(\sum x)^2}{n}}, \quad b = \frac{\sum y - \frac{(\sum x)(\sum y)}{n}}{1 - \frac{(\sum x)^2}{n}}$$

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

CHAPTER 3

SI = g/cm₃

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

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

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: $P = \rho \cdot g \cdot h$

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

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

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

Differential Manometer Equation: $P_1 - P_2 = (\rho_2 - \rho_1) \frac{P_2}{g} z_2$

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

Temperature:

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

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

Chemical Engineering Formula Sheet

Michael Brown



Chemical Engineering Formula Sheet:

Chemical Engineering Catalog ,1919 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 Industrial and Engineering Chemistry ,1923 **Industrial & Engineering Chemistry** ,1923 **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 **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 fulfil 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

Mining and Chemical Engineering Review ,1920 **Engineering Index Annual** ,1927 Everyday Engineering Magazine ,1919 Engineering Index ,1927 Chemical Abstracts ,1920 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1973 Metallurgical & Chemical Engineering Eugene Franz Roeber,Howard Coon Parmelee,1915 Chemical Engineer ,1912 **The Engineering Record, Building Record and the Sanitary Engineer** ,1908 *Engineering Record, Building Record and Sanitary Engineer* Henry Coddington Meyer,Charles Frederick Wingate,1897 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 **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

The Top Books of the Year Chemical Engineering Formula Sheet The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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