

Formula Sheet For General Chemistry (Nov. 16 2007)
 Blinn College Learning Center

DESCRIPTION	EQUATION
Ideal gas equation	$PV = nRT$
Adiabatic change	$PV = k$
Charles' Law	$\frac{V}{t} = k$
Bohr Radius	$a_0 = \frac{h^2}{m_e k e^2}$
Radii of stable orbits in the Bohr model	$r = n^2 \frac{h^2}{m_e k Z e^2} = n^2 \frac{a_0}{Z}$
Van der Waals equation	$\left(P + \frac{an^2}{V^2} \right) (V - bn) = nRT$
Entropy Change	$\Delta S^\circ = \sum S^\circ \text{products} - \sum S^\circ \text{reactants}$
Enthalpy Change	$\Delta H^\circ = \sum H_f^\circ \text{products} - \sum H_f^\circ \text{reactants}$
Gibb's Free Energy Change Defined	$\Delta G^\circ = \sum G_f^\circ \text{products} - \sum G_f^\circ \text{reactants}$
Gibb's Free Energy Change in Terms of Enthalpy, Absolute Temperature, and Entropy	$\Delta G^\circ = \Delta H^\circ - T \Delta S^\circ$
Gibb's Free Energy Change in Terms of Gas Constant, Absolute Temperature, and Equilibrium Constant	$\Delta G^\circ = -RT \ln K = -2.303RT \log K$
Gibb's Free Energy Change in Terms of Number of Moles, Faraday, and Standard Reduction Potential	$\Delta G^\circ = -n\mathfrak{F}E^\circ$
Reaction Quotient	$Q = \frac{[C]^c [D]^d}{[A]^a [B]^b}$ where $aA + bB \rightarrow cC + dD$
Electric Current	$I = \frac{q}{t}$
Cell Voltage	$E_{\text{cell}} = E_{\text{cell}}^\circ - \frac{RT}{n\mathfrak{F}} \ln Q = E_{\text{cell}}^\circ - \frac{0.0592}{n} \log Q$

Chemical Engineering Formula Sheet

RD Boyd



Chemical Engineering Formula Sheet:

Chemical Engineering Catalog ,1919 Industrial and Engineering Chemistry ,1923 **The Chemical Trade Journal and Chemical Engineer** G Kelville Davis,1928 **Industrial & Engineering Chemistry** ,1923 *Engineering Index Annual* ,1927 Mining and Chemical Engineering Review ,1920 *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 **Engineering Index** ,1927 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1973 **Metallurgical & Chemical Engineering** Eugene Franz Roeber,Howard Coon Parmelee,1915 **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 Chemical Engineer ,1912 **Chemical & Metallurgical Engineering** Eugene Franz Roeber,Howard Coon Parmelee,1920 The Chemical Engineer ,1913 **Chemical Engineer** Richard Kidder Meade,Harry McCormack,Laurance T. Clark,Alexander G. Sclater,Lloyd Lamborn,1913 *Chemical Engineering* ,2003 **Everyday Engineering Magazine** ,1919 Chemical Engineering Progress ,1985 **Catalog of Copyright Entries** Library of Congress. Copyright Office,1971 Electrochemical and Metallurgical Industry ,1921

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