

⇒ Heisenberg uncertainty principle :

$$\Delta x \cdot \Delta p \geq \frac{h}{4\pi}$$

⇒ Number of orbitals in a shell = n^2

⇒ Number of electrons in a shell = $2n^2$

⇒ Number of radial nodes = $(n - l - 1)$

Chemical Bonding

$$H = \frac{1}{2}[V + X - C + A]$$

(H = number of Hybrid orbitals)

$$\Rightarrow \text{Bond order} = \frac{1}{2}[N_b - N_a]$$

States of matter

⇒ Boyle's law : $P_1 V_1 = P_2 V_2$

⇒ Charles law : $\frac{V_1}{T_1} = \frac{V_2}{T_2}$

⇒ Ideal gas equation : $PV = nRT$

Dalton's law : $\Rightarrow P_{\text{total}} = P_1 + P_2 + P_3 + \dots$

$$\Rightarrow d_{\text{gas}} = \frac{PM}{RT}$$

$$\text{Graham's Law} \Rightarrow \frac{r_1}{r_2} = \sqrt{\frac{M_2}{M_1}}$$

⇒ Vander waal's equation : $\left(P + \frac{an^2}{V^2}\right)(V - nb) = nRT$

⇒ $C_p - C_v = nRT$

⇒ Kinetic gas equation : $PV = \frac{1}{3}Mu^2$

Chemical Thermodynamics

⇒ $\Delta U = q_p$, $\Delta H = q_p$

⇒ $\Delta H = \Delta U + \Delta n_g RT$

⇒ $C = \frac{q}{\Delta T}$ (C = Heat capacity)

⇒ $\Delta U = q + w$ (First law)

⇒ $\Delta H = \sum \Delta_f H^\circ_{\text{products}} - \sum \Delta_f H^\circ_{\text{reactants}}$

⇒ $\Delta G = \Delta H - T\Delta S$

⇒ $\Delta G^\circ = -RT \ln K$

Equilibrium

$$\Rightarrow K_{eq} = \frac{K_c}{K_p}$$

⇒ $K_p = K_c(RT)^{\Delta n}$

⇒ $K_w = [H^+][OH^-]$

⇒ $pH = -\log [H^+]$

⇒ $pK_w = pH + pOH$

⇒ $K_a = C\alpha^2$

⇒ $K_w = K_a \times K_b$

⇒ $K_w = [A^-]_e [B^+]$

Solid State

$$\Rightarrow \text{Density} = \frac{Z \times M}{a^3 \times N_A} \text{ g/cm}^3$$

⇒ Packing fraction : Simple cubic = $\frac{\pi}{6}$, FCC = $\frac{\sqrt{2}\pi}{6}$, BCC = $\frac{\sqrt{3}\pi}{8}$

⇒ Bragg's equation $d = n\lambda \sin \theta$

Solution

⇒ Henry's law $X_{\text{gas}} = K_H P$

⇒ Raoult's law : v.p. of solution = $x_A P_A^\circ + x_B P_B^\circ$

⇒ Relative lowering of V.P. : $\frac{P_A^\circ - P_A}{P_A^\circ} = X_{\text{solvent}}$

⇒ $\Delta T_b = i K_b m$

⇒ $\Delta T_f = i K_f m$

⇒ $\pi = CRT$

⇒ $i = \frac{\text{no. of particle of solute in solution}}{\text{no. of particles of pure solute}}$

Electrochemistry

⇒ $E^\circ_{\text{cell}} = E^\circ_{\text{cathode}} - E^\circ_{\text{anode}}$

⇒ $\Delta G^\circ = -nF E^\circ_{\text{cell}}$

Hsc Chemistry Formula Sheet

A Gutmann



Hsc Chemistry Formula Sheet:

Reviewing **Hsc Chemistry Formula Sheet**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Hsc Chemistry Formula Sheet**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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