#### Equilibrium Constants in Terms of Pressure, Ep.

When the reactions and products are gaves, the equilibrium constant can be expressed in terms of partial previous (K.).

$$K = \frac{|\text{NO}|^2|\text{Cl}_T|}{|\text{NOCI}|^2}$$
  $K_0 = \frac{P^2_{NO}P^2_{Cl_0}}{P^2_{NOCI}}$ 

The polythopology between Ap and Ale is given by the following constant

$$K_{p}=\mathbb{E}_{d}\otimes T)^{d/2}$$

As = X (product coefficients) - X (reactant coefficients)

Example: 
$$SE_2(p) + S_2(p)$$
 with  $SSE_2$ .  $E = 9.00 \pm 300^{\circ}$ ,  $E_p = 7$ .

$$\Delta u = 2 - (3 - 3) = -2 \quad L_y = 9.68 \times (0.00206 \pm 575)^2 = 4.54 \times 10^3$$

If the number of gas molecules does not change in the reaction, K<sub>n</sub> = K<sub>n</sub> because the = 0.

#### E for Heterogenous Equilibria

The concentrations of solids, liquids, and the solvent are multied from equilibrium expression

$$\mathrm{ECO}_{\mathcal{G}}(x_0) + \mathrm{ET}(x_0) \iff \mathrm{CO}_{\mathcal{G}}(y) + \mathrm{H}_{\mathcal{G}}(0) \qquad \mathrm{P}_{\mathcal{G}}(x) + \mathrm{SO}_{\mathcal{G}}(y) \iff \mathrm{P}_{\mathcal{G}}\mathrm{O}_{\mathcal{G}}(x)$$

$$K = \frac{|D(CO^2)||D|^2}{|COO^2|} \qquad K = \frac{|OO|^2}{1}$$

$$K = \frac{1}{|O_2|^3}$$

#### Equilibrium Constants and Units

The more accurate expression for the equilibrium constant is given by using the activities of reactions and products.  $K = \frac{(A_i)^2 (A_i)^2}{(A_i)^2 (A_i)^2}$ 

For most underproducte over them courses, it is assumed that a \* a since the differences, are small and can be neglected. Because activities have no timits. If is traditionally shown without timits

#### The Direction of Reaction and Quatient (O)

To predict the direction of reaction before an equilibrium is reached, reaction success is used. It is similar to the emossion for K however, the potent concept among the past

O < K Reaction has a tendency to form more product.</li>

$$Q_{\mathcal{S}} = \frac{|C|^2 |D|^2}{(4A)^4 |D|^2} \qquad Q_{\mathcal{S}} = \frac{P_{\mathcal{S}}^2 P_{\mathcal{S}}^2}{P_{\mathcal{S}}^2 P_{\mathcal{S}}^2} \qquad \begin{array}{c} \mathcal{Q} = K \, \text{Reaction has a tendency in forms more resonants.} \\ \mathcal{Q} = K \, \text{Reaction in at equilibrium.} \end{array}$$

 If our resistant or product is massing in the mitol mixture, the irraction will shift in the direction. forming some of that component

#### Le Chatelter's Principle

If a chemical system or equilibrium is disturbed, the system shifts in a direction that minimizes the disturbance. This can be done in different ways.

#### Changing Concentrations at Foulbleium

- Adding a renotant practices many product by paymening your of the rescues.
- Adding a product preduces more reasonably consuming some of the product.



#### Changing The Reaction Volume

- Decreasing the values shifts the reaction to in the direction with less was underaled
- Increasing the returns shifts the reaction to in the duration with more gas malecules.



#### Changing The Pressure

- The pressure can be changed in a few surps: 1) By decreasing the column (see above). 27 By adding palse substance to the masters (see above). It is added an east see.
- Adding an inert say does not cause a thirt in confidence become at does not after the gartial pressures of any of the reacting components.

#### Changing The Temperature

For an executioning exaction, treat the hear as a product.

3 H-rat + S-rat → 2 NH<sub>2</sub> + happ. 3/8-46/11 No. 40 - 2005. - heat Reportion stuffs state: Exercise bene-

For an endodorranc reaction, treat the best as a seasonal



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**Arshad Iqbal** 

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