

## SURFACE CHEMISTRY

(1). Freundlich Adsorption isotherm

$$x/m = k \cdot p^{1/n}$$

(2). Langmuir Adsorption isotherm

$$\frac{x}{m} = \frac{A}{1 + Kp}$$

Or,  $\frac{x}{m} = \frac{a}{1 + b \cdot p}$  Or  $\frac{x}{m} = \frac{a}{1 + \frac{b}{a} \cdot p}$

$\frac{x}{m} = \frac{K \cdot C}{1 + K \cdot C}$ ; C = Concentration of solute in solution

(3). Zeta potential,  $\zeta = \frac{4}{113}$