11/11/19 : PKA VALUES AND ENERGETICS

EQUILIBRUM CONTANT DECREBES DL : BIMISG AT REFERENCE

CONDITION OF IM EVERYTHING

$$\Delta G = \lambda G' + RTh\left(\frac{(u)(x)}{(ux)}\right)$$

C KD, AG = Ø:

$$0 = 34^{\circ} + RTh\left(\frac{M(x)}{Mx}\right)$$

$$-P(h\left(\frac{(u)(x)}{(ux)}\right) = 06^{\circ}$$



IMPROVED SG, LOWER KD.

LETS US COLATE ENGREETICS TO EQUICACION

PKA AND PH ALE SPECIAL CASES OF EQUILSAIM CONTANTS

$$pK_a = -log_{10}(K_a)$$

$$K_{ACID} \rightarrow K_{0, previous}$$
 $10^{-pK_a} = K_a$ 

-PTh(10 pkn) = Sa -- pkn: RT. h(10) = Sa

A SHIFT IN PK, IS PROPORTIONAL TO A STHET IN ENERGY.

A STEP IN PH IS DONPORTIONAL TO CHEMICAL POTENTIAL.

PLA VALUES MEASURE CHANES IN ENVIRONMENT

~<del>D</del>(<del>+)</del>~

PEROSS = PREMODER + SheNV PTh(10) Pka ASP 15 4.0:

YOU OSSENT PLA IS PONTERS OF 2.0.

IS THIS FAVORARUE COULCING INTEREST OR UNFAVORABLE DEHYORATION?