

## Equilibrium Practice Problems

1. Write the equilibrium expression for each of the following reactions:



$$K = \frac{[\text{NH}_3]^2}{[\text{N}_2] [\text{H}_2]^3}$$



$$K = \frac{[\text{ICl}]^2}{[\text{Cl}_2]}$$



$$K = \frac{[\text{NO}] [\text{O}_2]^{1/2}}{[\text{NO}_2]}$$

2. The dissociation of acetic acid,  $\text{CH}_3\text{COOH}$ , has an equilibrium constant at  $25^\circ\text{C}$  of  $1.8 \times 10^{-5}$ . The reaction is



If the equilibrium concentration of  $\text{CH}_3\text{COOH}$  is 0.46 moles in 0.500 L of water and that of  $\text{CH}_3\text{COO}^-$  is  $8.1 \times 10^{-3}$  moles in the same 0.500 L, calculate  $[\text{H}^+]$  for the reaction.

$$K = \frac{[\text{CH}_3\text{COO}^-] [\text{H}^+]}{[\text{CH}_3\text{COOH}]} \quad \text{Plug in known values and solve.}$$

$$1.8 \times 10^{-5} = \frac{[8.1 \times 10^{-3} \text{ moles}/0.500 \text{ L}] [\text{H}^+]}{[0.46 \text{ moles}/0.500 \text{ L}]}$$

$$[\text{H}^+] = 1.0 \times 10^{-3} \text{ M}$$

3. Indicate the effect of a catalyst, pressure, temperature and concentration on each of the following on:

	catalyst	pressure	temperature	concentration
a. speed	presence increase	direct relationship	direct relationship	direct relationship
b. pos <sup>n</sup>	nothing	based on moles	based on enthalpy of rxn	inverse relationship

# Equilibrium Practice Problems Problem And Answers

**Terry C. Jones**



## **Equilibrium Practice Problems Problem And Answers:**

## Unveiling the Energy of Verbal Art: An Mental Sojourn through **Equilibrium Practice Problems Problem And Answers**

In a world inundated with screens and the cacophony of fast communication, the profound power and emotional resonance of verbal artistry usually disappear into obscurity, eclipsed by the regular barrage of sound and distractions. However, situated within the lyrical pages of **Equilibrium Practice Problems Problem And Answers**, a fascinating work of literary beauty that impulses with natural thoughts, lies an unique trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this mesmerizing opus books readers on an emotional odyssey, gently revealing the latent possible and profound impact stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key styles, dissect its interesting writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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