

# CH 15 Equilibrium Study Guide

## Dynamic Equilibrium

Dynamic Equilibrium – forward & reverse reaction rates are equal

- **ASSUME** all rxns are **ELEMENTAL** (1 step!)
- Reversible reaction - something constantly produced & consumed
  - Indicated by  $\rightleftharpoons$

No net change in reactant or product concentrations

## Equilibrium Constant, $K_c$

For a general equation:



$$K_c = \frac{k_f}{k_r} = \frac{[D]^d [E]^e}{[A]^a [B]^b}$$

- A. The equilibrium-constant depends only on the stoichiometry of the reaction, not the mechanism.  
 B. **DOES NOT** depend on initial concentrations because *only* the **RATIO** of concentrations at equilibrium is the same  
 C. **K** has **NO** units!  
 D. **ONLY** consider gas & aqueous phases!!  
 -OMIT solids & liquids

## Significance of K

Value of K indicates if more products or reactants are present *at equilibrium*

- If K is large (>1): Products favored - Equilibrium lies to the right
- If K is small (<1): Reactants favored - Equilibrium lies to the left

## Equilibrium Constant, $K_p$

For a general equation:

Only if ALL phases are gases!



## Relating $K_p$ and $K_c$

$$K_p = K_c (RT)^{\Delta n} \quad ; \Delta n = [ \sum (\text{moles GAS in product}) - \sum (\text{moles GAS in reactant}) ]$$

# Dynamic Equilibrium Study Guide

**Bruce Wingerd, Patty Bostwick Taylor**



## **Dynamic Equilibrium Study Guide:**

**Student Notebook and Study Guide to Accompany The Human Body** Bruce Wingerd, Patty Bostwick Taylor, 2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd's The Human Body reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text's concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online *Fundamentals of Chemistry, Study Guide* James E. Brady, John R. Holum, 1988-04-20 This Third Edition of the widely used fundamentals textbook for science majors maintains the conversational writing style that made the previous editions so popular while including up to date treatments of important and current topics Emphasizes descriptive chemistry chemical reactions and properties while maintaining a solid treatment of chemical principles Common chemicals are used whenever possible as examples in both theoretical discussions and in problems and exercises Incorporates many pedagogical aids each chapter begins with a brief table of contents and each section begins with a preview of topics covered Chapters include frequent margin comments figures and photographs **Student Study Guide** Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years *Study Guide and Procedure Checklist Manual for Kinn's The Clinical Medical Assistant - E-Book* Brigitte Niedzwiecki, Julie Pepper, 2022-06-23 Designed to support the trusted content in Kinn's The Clinical Medical Assistant 14th Edition this study guide and procedure checklist manual is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure your mastery of clinical medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common clinical skills including new certification preparation questions that offer additional practice for certification exams a new chapter review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years Kinn's Clinical Study Guide and Procedure Checklist Manual also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Hundreds of practice questions test your knowledge and comprehension with vocabulary review multiple choice fill in the blank and true false questions Skills practice workplace applications and online activities promote your critical thinking skills Procedure checklists help you track your performance of key toward mastery of key skills and job readiness Work products allows you to provide documentation or file in professional portfolios to use in job searching Chapter by chapter correlation with the textbook allows you to easily test your comprehension as you go Perforated pages are easily removed for on the go study or turn in assignments and

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