

Chemistry Student Edition - Basic Answer Key

Chapter 19: Chemical Equilibrium

The Nature of Chemical Equilibrium

Questions

1. At chemical equilibrium, what is the relationship between the rate of the forward reaction and the rate of the reverse reaction?
2. What does the law of mass action say about any reaction at equilibrium?
3. Why are solids and liquids left out of the equilibrium constant expression?
4. Explain why the equilibrium constant expression as derived from concentrations can be converted to the equilibrium constant expression as derived from partial pressures.
5. Construct balanced chemical equations and write the equilibrium constant expression (either K_c or K_p) for each of the following processes.
 - a) Sodium metal reacts vigorously with oxygen gas to produce sodium oxide.
 - b) Aluminum oxide decomposes to form aluminum metal and oxygen gas.
 - c) Nitrogen gas and oxygen gas react to form nitrogen monoxide gas.
6. Give an example of a chemical equilibrium that exists in our daily lives.
7. Write a K_{eq} expression for each of the following processes.
 - a) Solid calcium carbonate is heated and decomposes into solid calcium oxide and carbon dioxide gas.
 - b) Hydrogen gas (H_2) and solid iodine (I_2) are combined to form hydrogen iodide gas (HI).

Answers

1. At equilibrium, the rate of the forward reaction equals the rate of the reverse reaction.
2. The ratio of product concentrations to reactant concentrations (along with the appropriate exponents) is equal to a constant.
3. Solids and liquids have essentially constant densities, which means that writing them is not very useful.
4. Partial pressures are related to concentrations by a factor of RT .
- 5.



$$K_c = \frac{[Na_2O_{(s)}]^2}{[Na_{(s)}]^2 [O_{2(g)}]}$$

- a) heterogeneous equilibria



$$K_c = \frac{[Al_{(s)}]^4 [O_{2(g)}]^3}{[Al_2O_{3(s)}]^2}$$

- b) heterogeneous equilibria

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Chemistry The Molecular Nature of Matter and Change *Chemistry* McGraw-Hill Staff,2001-03 *The Supramolecular Chemistry of Organic-Inorganic Hybrid Materials* Knut Rurack,Ramon Martinez-Manez,2010-04-07 The combination of supramolecular chemistry inorganic solids and nanotechnology has already led to significant advances in many areas such as sensing controlled motion and delivery By making possible an unprecedented tunability of the properties of nanomaterials these techniques open up whole new areas of application for future supramolecular concepts The Supramolecular Chemistry of Organic Inorganic Hybrid Materials gathers current knowledge on the subject and provides an overview of the present state and upcoming challenges in this rapidly growing highly cross or interdisciplinary research field The book details how these designed materials can improve existing materials or generate novel functional features such as chemical amplification cooperative binding and signal enhancement that are difficult or not at all achievable by classical organic supramolecular chemistry It also discusses issues related to nanofabrication or nanotechnology such as the directed and controlled assembly or disassembly biomimetic functions and strategies and the gating and switching of surface functions or morphology

Clinical Nursing Skills and Techniques Anne Griffin Perry, RN, EdD, FAAN,Patricia A. Potter,Wendy Ostendorf,2013-02-14 Known for its clear comprehensive coverage of over 200 evidence based skills Clinical Nursing Skills Techniques is today s leading nursing skills reference It features nearly 1 000 full color photographs and drawings a nursing process framework step by step instructions with rationales and a focus on critical thinking and evidence based practice This edition includes new coverage of patient centered care and safety guidelines an emphasis on QSEN core competencies and links to valuable online resources Written by the trusted author team of Anne Griffin Perry and Patricia A Potter and now joined by new author Wendy Ostendorf this reference helps you perform nursing skills with confidence Coverage of QSEN core competencies includes delegation and collaboration guidelines for reporting and recording and pediatric geriatric home care and teaching considerations Unique Using Evidence in Nursing Practice chapter covers the entire process of conducting research including collecting evaluating and applying evidence from published research Comprehensive coverage includes 212 basic intermediate and advanced nursing skills Clinical Decision Points within skills address key safety issues or possible skill modifications for specific patient needs Icons indicate video clips related to skills and procedures in the book and related lessons in Nursing Skills Online Rationales for each skill step explain why steps are performed in a specific way including

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Environmental Health Perspectives ,1993 **Physical and Chemical Hydrogeology** Patrick A. Domenico, Franklin W. Schwartz, 1997-10-15 This book shows readers how to apply hydrogeology principles to a host of problems related to water supply contamination and energy resources It discusses hydraulic testing modeling of contaminant transport process and parameter determination and remediation It also addresses porosity permeability and flow for continental environments marine environments and the borders between them

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Assisting practice Key vocabulary terms and definitions are presented at the beginning of each chapter highlighted in text discussions and summarized in a glossary for quick reference NEW Content aligns to 2022 Medical Assisting educational competencies NEW Advanced Clinical Skills unit features three new chapters on IV therapy radiology basics and radiology positioning to support expanded medical assisting functions NEW Coverage of telemedicine enhanced infection control related to COVID 19 and catheterization NEW Procedures address IV therapy limited scope radiography applying a sling and coaching for stool collection UPDATED Coverage of administrative functions includes insurance coding privacy data security and more UPDATED Online practice exam for the Certified Medical Assistant matches 2021 test updates EXPANDED Information on physical medicine and rehabilitation EXPANDED Content on specimen collection including wound swab nasal and nasopharyngeal specimen collections

Mining Environmental Handbook: Effects Of Mining On The Environment And American Environmental Controls On Mining Jerrold J Marcus,1997-05-03 Negative environmental events make the headlines Mining industry examples are the recent incidents at Summitville Colorado US and the cyanide leak at Cambria Resource s Omai Operation in Guyana In this volatile atmosphere the publication of the Mining Environmental Handbook comes at an opportune time It presents an objective comprehensive and integrated examination of the effects of mining on the environment and the environmental laws that deal with mining Though stressing activities in the United States of America it covers all of North America North American environmental standards are currently being exported around the world Consequently this handbook will be of prime interest in countries that are now coming to terms with mining environmentalism It should benefit working engineers and environmentalists manufacturers legislators regulators financiers and journalists It has been selected as a university textbook Finally it will be an indispensable reference during serious discussions about mining environmentalism

Handbook of sol-gel science and technology. 1. Sol-gel processing Sumio Sakka,2005 Since Dr Dislich of Germany prepared a glass lens by the sol gel method around 1970 sol gel science and technology has continued to develop Since then this field has seen remarkable technical developments as well as a broadening of the applications of sol gel science and technology There is a growing need for a comprehensive reference that treats both the fundamentals and the applications and this is the aim of Handbook of Sol Gel Science and Technology The primary purpose of sol gel science and technology is to produce materials active and non active including optical electronic chemical sensor bio and structural materials This means that sol gel science and technology is related to all kinds of manufacturing industries Thus Volume 1 Sol Gel Processing is devoted to general aspects of processing Newly developed materials such as organic inorganic hybrids photonic crystals ferroelectric coatings photocatalysts will be covered Topics in this volume include Volume 2 Characterization of Sol Gel Materials and Products highlights the important fact that useful materials are only produced when characterization is tied to processing Furthermore characterization is essential to the understanding of nanostructured materials and sol gel technology is a most important technology in this new field Since

nanomaterials display their functional property based on their nano and micro structure characterization is very important Topics found in Volume 2 include Sol gel technology is a versatile technology making it possible to produce a wide variety of materials and to provide existing substances with novel properties This technology was applied to producing novel materials for example organic inorganic hybrids which are quite difficult to make by other fabricating techniques and it was also applied to producing materials based on high temperature superconducting oxides Applications of Sol Gel Technology Volume 3 will cover applications such as **Chemical Thermodynamics for Industry** Trevor M Letcher, 2007-10-31 Chemical Thermodynamics for Industry presents the latest developments in applied thermodynamics and highlights the role of thermodynamics in the chemical industry Written by leading experts in the field Chemical Thermodynamics for Industry covers the latest developments in traditional areas such as calorimetry microcalorimetry transport properties crystallization adsorption electrolyte systems and transport fuels It highlights newly established areas such as multiphase modeling reactive distillation non equilibrium thermodynamics and spectro calorimetry It also explores new ways of treating old technologies as well as new and potentially important areas such as ionic liquids new materials ab initia quantum chemistry nano particles polymer recycling clathrates and the economic value of applied thermodynamics This book is aimed not only at those working in a specific area of chemical thermodynamics but also at the general chemist the prospective researcher and those involved in funding chemical research **Survival Handbook for the New Chemistry Instructor** Diane M. Bunce, Cinzia M. Muzzi, 2004 This book provides an overview of the issues facing new chemistry faculty in preparation for teaching Serving as a reference to answer specific questions new chemistry faculty encounter this book is comparable to sitting down with a colleague in the department and talking through some ideas or gaining some pointers on how to avoid common pitfalls It is the one single place new chemistry faculty can go to find practical information on how to teach and how to prepare for teaching their first course Chapters are written both by established experts in the field and by new professors within their first couple of years of teaching

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web conceptualisation of maa tarini maa tarini is the presiding deity for all shakti and tantra peeths or shrines in odisha the origin of shakti or worship of the earth as a female embodiment of power is found across many cultures all over the world

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