



Reaction Rates and Equilibrium Study Guide

ANSWER KEY

1. Describe how each of the following factors would affect the rate of a chemical reaction in terms of "particle collisions" in your response.
 - a. Temperature decreases *If temperature decreases, the particles will move slower and there will be less reactant particle collisions AND a smaller percentage of collisions will have enough energy to produce a reaction. The reaction rate will therefore decrease.*
 - b. Addition of iodide ions, I^- , as a catalyst *The presence of the catalyst provides an alternative pathway for the reaction taking place. This means that a larger percentage of collisions will have enough energy to produce a reaction. The reaction rate will therefore increase.*
 - c. Increased reactant concentration *With more reactant particles present, there are more opportunities for collisions between those particles. This means the reaction rate will increase.*
 - d. Crushing a solid into a powder (with larger surface area) *As a powder, there is more surface area available for collisions to take place. This means there will be more collisions and therefore a faster reaction rate.*
2. The reaction progress diagram shows the energy changes that take place when nitrogen dioxide gas reacts with carbon monoxide gas to form carbon dioxide gas and nitrogen gas.

Study Guide Reaction Rates And Equilibrium Answers

Julie R. Frentrup



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Chemical Principles Student's Study Guide & Solutions Manual John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter

Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application

Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein, Laurie S. Starkey, 2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

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Fundamentals of Engineering Study Guide Lloyd T. Cheney, 1987 This is a 2 volume set including a 288 page Study Guide plus a 144 page Solution Manual The manual was contributed by 10 professors It is a review of Mathematics Chemistry Statics Fluid Mechanics Strength of Materials Thermodynamics Electric Circuits Engineering Economy Computer Science and Systems plus 550 EIT problems with detailed solutions 50% text 50% Problems and solutions The two items are shrink wrapped together *Study Guide with Selected Solutions* Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems

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