

Equilibrium Practice Questions

Name: _____

Equilibrium Questions

1. At an unspecified temperature a 3.00 L flask contains 3.5 mol of HI(g), 4.1 mol of H₂(g) and 0.30 mol of I₂(g). Calculate K_c for: $\text{H}_2(\text{g}) + \text{I}_2(\text{g}) \rightleftharpoons 2\text{HI}(\text{g})$
2. At 1200 °C, K_c = 2.51 × 10⁴ (no units) for: $\text{H}_2(\text{g}) + \text{I}_2(\text{g}) \rightleftharpoons 2\text{HI}(\text{g})$. What concentration of HI(g) will be produced if 0.250 mol/L of each reactant comes to equilibrium?
3. At 460°C K_c for: $\text{SO}_2(\text{g}) + \text{NO}_2(\text{g}) \rightleftharpoons \text{SO}_3(\text{g}) + \text{NO}(\text{g})$ - is 85.0 (no units). Estimate the product equilibrium concentrations if 0.100 mol/L of each reactant is allowed to come to equilibrium?
4. At 1530 °C, the K_c of: $\text{N}_2(\text{g}) + \text{O}_2(\text{g}) \rightleftharpoons 2\text{NO}(\text{g})$ - is 1.20 × 10⁻⁴ (no units). What are the equilibrium concentrations of all the reaction components, after 1.00 mol/L of each of the reactants is allowed to come to equilibrium?

Kinetics And Equilibrium Practice Problems

John Williams



Kinetics And Equilibrium Practice Problems:

Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples, and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step by step process for problem solving, whether mathematical or conceptual. Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts. Includes a chapter designed to eliminate confusion concerning acid base reactions, which often persists through working with acid base equilibrium. Many chapters provide alternative viewpoints as an aid to understanding. This book addresses a very real need for a large number of incoming freshmen in STEM fields.

New Understanding Chemistry for Advanced Level Third Edition Ted Lister, Janet Renshaw, 2000. Matches the specifications of the Awarding Bodies AQA, NEAB, AEB, OCR, and Edexcel. This accessible text includes frequent hints, questions, and examination questions providing support and facilitating study at home. It features photographs and comprehensive illustrations with 3D chemical structures.

[E3 Chemistry Guided Study Book - 2018 Home Edition \(Answer Key Included\)](#) Effiong Eyo, 2017-12-08. Chemistry students and Homeschoolers: Go beyond just passing. Enhance your understanding of chemistry and get higher marks on homework, quizzes, tests, and the regents exam with E3 Chemistry Guided Study Book 2018. With E3 Chemistry Guided Study Book, students will get clean, clear, engaging, exciting, and easy-to-understand high school chemistry concepts with emphasis on New York State Regents Chemistry. The Physical Setting: Easy-to-read format to help students easily remember key and must-know chemistry materials. Several example problems with guided step-by-step solutions to study and follow. Practice multiple choice and short answer questions along side each concept to immediately test student understanding of the concept. 12 topics of Regents question sets and 2 most recent Regents exams to practice and prep for any Regents Exam. This is the Home Edition of the book. Also available in School Edition. ISBN 978 1979088374. The Home Edition contains answer key to all questions in the book. Teachers who want to recommend our Guided Study Book to their students should recommend the Home Edition. Students and parents whose school is not using the Guided Study Book as instructional material, as well as homeschoolers, should also buy the Home edition. The School Edition does not have the answer key in the book. A separate answer key booklet is provided to teachers with a class order of the book. Whether you are using the school or Home Edition, our E3 Chemistry Guided Study

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Stanitski,2004-08 **General Chemistry** William Harrison Nebergall, Henry Fuller Holtzclaw, William R. Robinson, 1980

Kinetics and Catalysis ,1983-07 **Super Course for the MCAT** Stefan Bosworth,1992-03 This brand new addition to Arco's acclaimed SuperCourse series is certain to set a new high standard for quality It offers the comprehensive MCAT preparation including in depth subject reviews as well as full length sample exams and in depth preparation for the new required essay section *The Gas Record* ,1915 *Cracking the CLEP* 1999 Tom Meltzer, Paul Foglino, 1998 WE KNOW THE CLEP The experts at The Princeton Review take the CLEP and other standardized tests each year to make sure you get the most up to date thoroughly researched books possible WE KNOW STUDENTS Each year we help more than two million students score high with our courses best selling books and award winning software WE GET RESULTS Students who take our courses for the SAT GRE LSAT and many other tests see score improvements that have been verified by independent accounting firms The proven techniques that we teach in our courses are in this book AND IF IT'S ON THE CLEP IT'S IN THIS BOOK The Princeton Review realizes that acing the CLEP is very different from getting straight As in school We don't try to teach you everything there is to know about every subject only the techniques that you need to score high on the CLEP There's a big difference In *Cracking the CLEP* we'll teach you how to think like the test makers and Eliminate answer choices that look right but are planted to fool you Avoid the tricky Restructuring Sentences and Analyzing Writing questions on the English exam Tackle the Humanities exam by using clues in the questions Crack algebra problems by plugging in numbers in place of letters Ace the Social and Natural Science exams by tailoring your review to the tests This book includes five full length diagnostic exams that will predict your score on the CLEP The questions in these tests are exactly like the ones you'll find on the real CLEP and we fully explain every solution An Investigation of the Manufacture of Water Gas Lloyd Logan, 1929 *Muskingum College Bulletin* Muskingum College, 1924

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