

Equilibrium Lab

Instructions: Complete all sections of this report and answer all questions in complete sentences for full credit.

Title: Equilibrium lab

Objective(s): Observe how changing the concentration of a component of a reaction affects its equilibrium

Hypothesis: Complete the following statements for your hypotheses. Choose one of the options in brackets by highlighting, bolding, or placing your answer in a different color.

If the amount of reactant increases, the rate of the forward reaction will [**increase** or decrease] and the rate of the reverse reaction will [increase or **decrease**].

If the amount of reactant decreases, the rate of the forward reaction will [increase or **decrease**] and the rate of the reverse reaction will [**increase** or decrease].

If the amount of product increases, the rate of the forward reaction will [increase or **decrease**] and the rate of the reverse reaction will [**increase** or decrease].

If the amount of product decreases, the rate of the forward reaction will [**increase** or decrease] and the rate of the reverse reaction will [increase or **decrease**].

Materials: For this lab, you are not expected to list the materials. But still notice the materials (lab equipment and chemicals) used in the lab to help you analyze the data, write the conclusion, and answer the post-lab questions.

Variables: List variables below as you work through the simulation.

Type	Variables
Controlled	
Independent	equilibrium how much of the reactants
Dependent	reaction rate

Procedure: Follow the steps described in the virtual lab. Record your observations and interpretations below.

Equilibrium reaction in the lab:

Introducing Equilibrium Lab Answers

W.H.T. Loh



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Introduction to Experimental Methods Terry W. Armstrong, 2023-07-31 Introduction to Experimental Methods succinctly explains fundamental engineering concepts in mechanics dynamics heat transfer and fluid dynamics From conceptualizing an engineering experiment to conducting a comprehensive lab this book enables students to work through the entire experimental design process Offering a complete overview of instruction for engineering lab methodology the book includes practical lab manuals for student use directly complementing the instruction Numerous worked examples and problems are presented along with several hands on experiments in individual lab manuals This book discusses how to write lab reports how to configure a variety of instruments and equipment and how to work through failures in experimentation Introduction to Experimental Methods is intended for senior undergraduate engineering students taking courses in Experimental Methods Instructors will be able to utilize a Solutions Manual for their course Features Provides an overview of experimental methods in mechanics dynamics heat transfer and fluid dynamics Covers design of experiments instruments and statistics Discusses SolidWorks and PASCO Capstone software Includes numerous end of chapter problems and worked problems Features a Solutions Manual for instructor use

A Basic Introduction to Pollutant Fate and Transport Frank M. Dunnivant, Elliot Anders, 2006-02-17 A uniquely accessible text on environmental modeling designed for both students and industry personnel Pollutant fate and modeling are becoming increasingly important in both regulatory and scientific areas However the complexity of the software and models often act as an inhibitor to the advancement of water quality science A Basic Introduction to Pollutant Fate and Transport fills the need for a basic instructional tool for students and environmental professionals who lack the rigorous mathematical background necessary to derive the governing fate and transport equations Taking a refreshingly simple approach to the subject that requires only a basic knowledge of algebra and first year college chemistry the book presents and integrates all of the aspects of fate and transport including chemistry modeling risk assessment and relevant environmental legislation approaching each topic first conceptually before introducing the math necessary to model it The first half of the book is dedicated to the chemistry and physics behind the fate and transport models while the second half teaches and reinforces the logical concepts underlying fate and transport modeling This better prepares students for support jobs in the environmental arena surrounding chemical industry and Superfund sites Contributing to the book's ease of use are An extremely user friendly software program Fate which uses basic models to predict the fate and transport of pollutants in lakes rivers groundwater and atmospheric systems The use of canned models to evaluate the importance of model parameters and sensitivity analysis A wealth of easy to understand examples and problems A chapter on environmental legislation in the United States and Europe A set of lab exercises as well as a downloadable set of teaching aids A much needed basic text for contemporary hydrology or environmental chemistry courses and support courses for the environmental industry this is a valuable desk reference for educators and industry professionals

An Inquiry-Based Introduction to Engineering Michelle Blum,2022-09-20 The text introduces engineering to first year undergraduate students using Inquiry Based Learning IBL It draws on several different inquiry based instruction types such as confirmation inquiry structured inquiry guided inquiry and open inquiry and all of their common elements Professor Blum s approach emphasizes the student s role in the learning process empowering them in the classroom to explore the material ask questions and share ideas instead of the instructor lecturing to passive learners about what they need to know Beginning with a preface to IBL the book is organized into three parts each consisting of four to ten chapters Each chapter has a dedicated topic where an initial few paragraphs of introductory or fundamental material are provided This is followed by a series of focused questions that guide the students learning about the concept s being taught Featuring multiple inquiry based strategies each most appropriate to the topic An Inquiry Based Approach to Introduction to Engineering stands as an easy to use textbook that quickly allows students to actively engage with the content during every class period

Introduction to Intelligent Systems in Traffic and Transportation Ana L.C. Bazzan,Franziska Klügl,2014-05-01 Urban mobility is not only one of the pillars of modern economic systems but also a key issue in the quest for equality of opportunity once it can improve access to other services Currently however there are a number of negative issues related to traffic especially in mega cities such as economical issues cost of opportunity caused by delays environmental externalities related to emissions of pollutants and social traffic accidents Solutions to these issues are more and more closely tied to information and communication technology Indeed a search in the technical literature using the keyword urban traffic to filter out articles on data network traffic retrieved the following number of articles as of December 3 2013 9 443 ACM Digital Library 26 054 Scopus and 1 730 000 Google Scholar Moreover articles listed in the ACM query relate to conferences as diverse as MobiCom CHI PADS and AAMAS This means that there is a big and diverse community of computer scientists and computer engineers who tackle research that is connected to the development of intelligent traffic and transportation systems It is also possible to see that this community is growing and that research projects are getting more and more interdisciplinary To foster the cooperation among the involved communities this book aims at giving a broad introduction into the basic but relevant concepts related to transportation systems targeting researchers and practitioners from computer science and information technology In addition the second part of the book gives a panorama of some of the most exciting and newest technologies originating in computer science and computer engineering that are now being employed in projects related to car to car communication interconnected vehicles car navigation platooning crowd sensing and sensor networks among others This material will also be of interest to engineers and researchers from the traffic and transportation community

Research Based Undergraduate Science Teaching Dennis W. Sunal,Cynthia S Sunal,Emmett L. Wright,Cheryl L. Mason,Dean Zollman,2014-07-01 Research in Science Education RISE Volume 6 Research Based Undergraduate Science Teaching examines research theory and practice concerning issues of teaching science with undergraduates This RISE

volume addresses higher education faculty and all who teach entry level science The focus is on helping undergraduates develop a basic science literacy leading to scientific expertise RISE Volume 6 focuses on research based reforms leading to best practices in teaching undergraduates in science and engineering The goal of this volume is to provide a research foundation for the professional development of faculty teaching undergraduate science Such science instruction should have short and longterm impacts on student outcomes The goal was carried out through a series of events over several years The website at <http://nseus.org> documents materials from these events The international call for manuscripts for this volume requested the inclusion of major priorities and critical research areas methodological concerns and results of implementation of faculty professional development programs and reform in teaching in undergraduate science classrooms In developing research manuscripts to be reviewed for RISE Volume 6 researchers were asked to consider the status and effectiveness of current and experimental practices for reforming undergraduate science courses involving all undergraduates including groups of students who are not always well represented in STEM education To influence practice it is important to understand how researchbased practice is made and how it is implemented The volume should be considered as a first step in thinking through what reform in undergraduate science teaching might look like and how we help faculty to implement such reform

Instructors Manual to Lab Manual Ralph Petrucci, William Harwood, Geoffrey Herring, 2001

Introduction to Geomicrobiology Kurt O. Konhauser, 2009-03-12 Introduction to Geomicrobiology is a timely and comprehensive overview of how microbial life has affected Earth's environment through time It shows how the ubiquity of microorganisms their high chemical reactivity and their metabolic diversity make them a significant factor controlling the chemical composition of our planet The following topics are covered how microorganisms are classified the physical constraints governing their growth molecular approaches to studying microbial diversity and life in extreme environments bioenergetics microbial metabolic capabilities and major biogeochemical pathways chemical reactivity of the cell surface metal sorption and the microbial role in contaminant mobility and bioremediation biorecovery microbiological mineral formation and fossilization the function of microorganisms in mineral dissolution and oxidation and the industrial and environmental ramifications of these processes elemental cycling in biofilms formation of microbialites and sediment diagenesis the events that led to the emergence of life evolution of metabolic processes and the diversification of the biosphere Artwork from the book is available to instructors at www.blackwellpublishing.com/konhauser

Re-entry and Planetary Entry Physics and Technology W.H.T. Loh, 2012-12-06 During the last decade a rapid growth of knowledge in the field of re entry and planetary entry has resulted in many significant advances useful to the student engineer and scientist The purpose of offering this course is to make available to them these recent significant advances in physics and technology Accordingly this course is organized into five parts Part 1 Entry Dynamics Thermodynamics Physics and Radiation Part 2 Entry Ablation and Heat Transfer Part 3 Entry Experimentation Part 4 Entry Concepts and Technology and Part 5

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