

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 effects 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

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Introducing Equilibrium Lab Answers:

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

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 **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 Exploring General Chemistry in the Laboratory Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science 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 *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 Advanced Entry Programs It is written in such a way so that it may easily be adopted by other universities as a textbook for a two semesters senior or graduate course on the subject In addition to the undersigned who served as the course instructor and wrote Chapters 1 2 3 and 4 guest lecturers included Prof FRANKLIN K MOORE who wrote Chapter 5 Entry Radiative Transfer Prof SHIH I PAI who wrote Chapter 6 Entry Radiation Magnetogas dynamics Dr CARL GAZLEY Jr who wrote Chapter 7 Entry Deceleration and Mass Change of an Ablating Body Dr SINCLAIRE M SCALA who wrote Chapter 8 Entry Heat Transfer and Material Response Mr 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 **Teaching Inquiry Science in Middle and Secondary Schools** Anton E. Lawson, 2010 This textbook provides an introduction to inquiry oriented secondary science teaching methods Instructors Manual to Lab Manual Ralph Petrucci, William Harwood, Geoffrey Herring, 2001 *Nonlinear Dynamics and Chaotic Phenomena: An Introduction* Bhimsen K. Shivamoggi, 2014-05-14 This book starts with a discussion of nonlinear ordinary differential equations bifurcation theory and Hamiltonian dynamics It then embarks on a systematic discussion of the traditional topics of modern nonlinear dynamics integrable systems Poincar maps chaos fractals and strange attractors The Baker s transformation the logistic map and Lorenz system are discussed in detail in view of their central place in the subject There is a detailed discussion of solitons centered around the Korteweg deVries equation in view of its central place in integrable systems Then there is a discussion of the Painlevé property of nonlinear differential equations which seems to provide a test of integrability Finally there is a detailed discussion of the application of fractals and multi fractals to fully developed turbulence a problem whose understanding has been considerably enriched by the application of the concepts and methods of modern nonlinear dynamics On the application side there is a special emphasis on some aspects of fluid dynamics and plasma physics reflecting the author s involvement in these areas of physics A few exercises have been provided that range from simple applications to occasional considerable extension of the theory Finally the list of references given at the end of the book contains primarily books and papers used in developing the lecture material this volume is based on This book has grown out of the author s lecture notes for an interdisciplinary graduate level course on nonlinear dynamics The basic concepts language and results of nonlinear dynamical systems are described in a clear and coherent way In order to allow for an interdisciplinary readership an informal style has been adopted and the mathematical formalism has been kept to a minimum This book is addressed to first year graduate students in applied mathematics physics and engineering and is useful also to any theoretically inclined researcher in the physical sciences and engineering This second edition constitutes an extensive rewrite of the text involving refinement and enhancement of the clarity and precision updating and amplification of several sections addition of new material like theory of nonlinear differential equations solitons Lagrangian chaos in fluids and critical phenomena perspectives on the fluid turbulence problem and many new exercises 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

An Introduction to Ultracentrifugation Thomas John Bowen, Arthur J. Rowe, 1970 *Introduction to General, Organic, and Biochemistry* Morris Hein, 1997 The authors recognize that both science and mathematics may be daunting subjects for many students taking this course With this in mind they have anticipated where students might stumble and have paced and organized this text to help them through Their goal is to make the material interesting and relevant so students understand the basic chemical principles related to their career The authors emphasize problem solving and provide a range of practice exercises As in previous editions the text first presents the basic concepts of general chemistry and then moves into organic and biochemistry In this edition the first two sections have been revised primarily to improve explanations and include new pedagogical features The biochemistry portion has been thoroughly updated to include coverage of many recent developments and emerging technologies in the field

An Introduction to Chemistry Michael Mosher, Paul Kelter, 2023-03-18 This textbook is written to thoroughly cover the topic of introductory chemistry in detail with specific references to examples of topics in common or everyday life It provides a major overview of topics typically found in first year chemistry courses in the USA The textbook is written in a conversational question based format with a well defined problem solving strategy and presented in a way to encourage readers to think like a chemist and to think outside of the box Numerous examples are presented in every chapter to aid students and provide helpful self learning tools The topics are arranged throughout the textbook in a traditional approach to the subject with the primary audience being undergraduate students and advanced high school students of chemistry

Biology/science Materials Carolina Biological Supply Company, 1991 *Ninth Symposium (International) on Combustion* Sam Stuart, 2013-09-11 Ninth Symposium International on Combustion covers the proceedings of the Ninth Symposium International on Combustion held at Cornell University in Ithaca New York on August 27 to September 1 1962 under the auspices of the Combustion Institute The book focuses on the processes and reactions involved in combustion The selection first offers information on flame strength of propane oxygen flames at low pressures in turbulent flow and mixing and flow in ducted turbulent jets Topics include radial profile of the jetting velocity radial growth of the jet and mixing zones of a ducted jet The text then elaborates on turbulent flame studies in two dimensional open burners turbulent mass transfer and rates of combustion in confined turbulent flames and flame stabilization in a boundary layer The publication examines the theoretical study of properties of laminar steady state flames as a function of properties of their chemical components and spectra of alkali metal organic halide flames The text then takes a look at the thermal radiation theory for plane flame propagation in coal dust clouds flame characteristics of the diborane hydrazine system and studies of the combustion of dimethyl hydrazine

and related compounds The selection is a dependable reference for readers interested in the processes and reactions involved in combustion *A Brief Introduction to Fluid Mechanics* Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-12-21 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today's student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles *Notes on Sedimentation Activities*, 1969 *A Route to Chaos Using FPGAs* Bharathwaj Muthuswamy, Santo Banerjee, 2015-06-18 The purpose of this introductory book is to couple the teaching of chaotic circuit and systems theory with the use of field programmable gate arrays FPGAs As such it differs from other texts on chaos first it puts emphasis on combining theoretical methods simulation tools and physical realization to help the reader gain an intuitive understanding of the properties of chaotic systems Second the medium used for physical realization is the FPGA These devices are massively parallel architectures that can be configured to realize a variety of logic functions Hence FPGAs can be configured to emulate systems of differential equations Nevertheless maximizing the capabilities of an FPGA requires the user to understand the underlying hardware and also FPGA design software This is achieved by the third distinctive feature of this book a lab component in each chapter Here readers are asked to experiment with computer simulations and FPGA designs to further their understanding of concepts covered in the book This text is intended for graduate students in science and engineering interested in exploring implementation of nonlinear dynamical chaotic systems on FPGAs *Comptes-rendus des travaux du Laboratoire Carlsberg*, 1929

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Introducing Equilibrium Lab Answers**

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