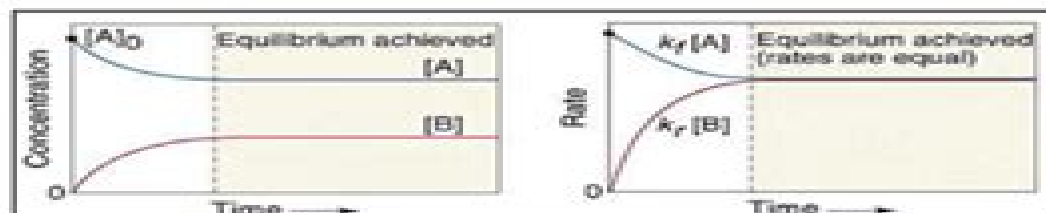


Chapter 14 Worksheet 1 (ws14.1)

Chemical Equilibrium, the Equilibrium Constant (K_{eq}), and the Reaction Quotient (Q)

As a reaction proceeds in a **closed system**, the concentrations of reactants and products change until, at **equilibrium**, the rate of the forward reaction is equal to the rate of the reverse reaction. At that point there is **no net change** in the concentrations of reactants or products. For example, for the simple reaction: $A \rightleftharpoons B$:



Regardless of the initial concentrations, the concentrations of reactants and products present **at equilibrium** are related through the equilibrium constant (K_{eq}) as follows:

For the reaction: $aA + bB \rightleftharpoons cC + dD$

If all reactants and products are in solution then:

$$K_{eq} = K_c = \frac{[C]_{eq}^c [D]_{eq}^d}{[A]_{eq}^a [B]_{eq}^b}$$

(The subscript “eq” indicates “equilibrium” concentration. The subscript “c” stands for “concentration”. The exponents are the coefficients from the balanced equation.)

If all reactants and products are ideal gases then **either** partial pressures or concentrations can be used in the equilibrium constant expression. In terms of partial pressures:

$$K_{eq} = K_p = \frac{(P_C)_{eq}^c (P_D)_{eq}^d}{(P_A)_{eq}^a (P_B)_{eq}^b} \quad \text{(The subscript “p” stands for “pressure”).}$$

The numerical value of the two equilibrium constants above will be different. Remember the ideal gas law shows that the partial pressure of a gas is directly proportional to its molarity:

$$P = \frac{nRT}{V} = MRT \quad (M \text{ is molarity and } R = 0.0821 \text{ L-atm/mol-K}).$$

Using this relationship, it is easy to show that (see pages 605-606 in your textbook) :

$$K_p = K_c(RT)^{\Delta n} \quad \text{where } \Delta n = \text{moles of gaseous products} - \text{moles of gaseous reactants}$$

For reactions involving both gases and aqueous solutions, molar concentrations **and** partial pressures can appear in the equilibrium constant expression.

Equilibrium Ice Practice Problems

Johannes Oerlemans



Equilibrium Ice Practice Problems:

ICE Manual of Geotechnical Engineering Volume 1 Hilary Skinner,D G Toll,Kelvin Higgins,Mike Brown,John Burland,2023-11-17 ICE Manual of Geotechnical Engineering Second edition brings together an exceptional breadth of material to provide a definitive reference on geotechnical engineering solutions Written and edited by leading specialists each chapter provides contemporary guidance and best practice knowledge for civil and structural engineers in the field

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Jacobson,1999 Comprehensive graduate text describing the atmospheric processes numerical methods and computational techniques needed for those studying air pollution and meteorology *Ice and Refrigeration* ,1926 *Ice Physics and the Natural Environment* John S. Wettlaufer,J.Gregory Dash,Norbert Untersteiner,2013-06-29 The Advanced Study Institute Ice Physics in the Natural and Endangered Environ ment was held at Acquafredda di Maratea Italy from September 7 to 19 1997

The ASI was designed to study the broad range of ice science and technology and it brought together an appropriately interdisciplinary group of lecturers and students to study the many facets of the subject. The talks and poster presentations explored how basic molecular physics of ice have important environmental consequences and conversely how natural phenomena present new questions for fundamental study. The lectures discuss these linkages in order that overall unity of following summary of the subject and this volume can be perceived. Not all of the lecturers and participants were able to contribute a written piece but their active involvement was crucial to the success of the Institute and thereby influenced the content of the volume. We began the Institute by retracing the history of the search for a microscopic understanding of melting. Our motivation was straightforward. Nearly every phenomenon involving ice in the environment is influenced by the change of phase from solid to liquid or vice versa. Hence a sufficiently deep physical picture of the melting transition enriches our appreciation of a vast array of geophysical and technical problems.

Troubleshooting and Problem-Solving in the IVF Laboratory Kay Elder, Marc Van den Bergh, Bryan Woodward, 2015-06-18. Helping IVF laboratories and clinics to maintain the highest success rates possible, this is essential reading for every IVF laboratory.

Bihar STET Paper II : Chemistry 2024 (English Edition) | Higher Secondary (Class 11 & 12) - Bihar School Examination Board (BSEB) - 10 Practice Tests Edugorilla Prep Experts, Best Selling Book for Bihar STET Paper II Chemistry comes with objective type questions as per the latest syllabus given by the Bihar School Examination Board BSEB. Bihar STET Paper II Chemistry Preparation kit comes with 10 Practice Tests with the best quality content. Increase your chances of selection by 16X. Bihar STET Paper II Chemistry comes with well structured and 100% detailed solutions for all the questions. Clear exam with good grades using thoroughly researched content by experts.

Mass Balance of the Cryosphere Jonathan L. Bamber, Antony J. Payne, 2004-02-12. The cryosphere comprises all the frozen water and soil on the surface of the Earth. Mass Balance of the Cryosphere focuses on two key components of this environment: land ice in the form of ice sheets, caps, and glaciers, and sea ice. These components have been identified as important indicators of both short and long term climate change. Early chapters cover the theory behind field based and satellite observations and modelling of mass balance, providing a thorough grounding in all the concepts and issues presented later in the book. Later chapters review our current understanding of the present and predicted future mass balance of the cryosphere. This is an important reference for all scientists working in the fields of climate change, environmental sciences, and glaciology. It is written by leading authors in the field and is fully integrated to provide a coherent, cross referenced, and consistent exposition on the subject.

JEE Advanced Chemistry - Unit wise Practice Test Papers Career Point Kota, 2020-07-20. Competitive examination preparation takes enormous efforts and time on the part of a student to learn practice and master each unit of the syllabus. To check proficiency level in each unit, student must take self assessment to identify his/her weak areas to work upon that eventually builds confidence to win. Also, performance of a student in exam improves significantly if student is familiar with the exact nature

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Unsaturated Soil Mechanics in Engineering Practice Delwyn G. Fredlund, Hendry Rahardjo, Murray D. Fredlund, 2012-07-24 The definitive guide to unsaturated soil from the world s experts on the subject This book builds upon and substantially updates Fredlund and Rahardjo s publication *Soil Mechanics for Unsaturated Soils* the current standard in the field of unsaturated soils It provides readers with more thorough coverage of the state of the art of unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved Retaining the fundamental physics of unsaturated soil behavior presented in the earlier book this new publication places greater emphasis on the importance of the soil water characteristic curve in solving practical engineering problems as well as the quantification of thermal and moisture boundary conditions based on the use of weather data Topics covered include Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of Unsaturated Soil State Variables for Unsaturated Soils Measurement and Estimation of State Variables Soil Water Characteristic Curves for Unsaturated Soils Ground Surface Moisture Flux Boundary Conditions Theory of Water Flow through Unsaturated Soils Solving Saturated Unsaturated Water Flow Problems Air Flow through Unsaturated Soils Heat Flow Analysis for Unsaturated Soils Shear Strength of Unsaturated Soils Shear Strength Applications in Plastic and Limit Equilibrium Stress Deformation Analysis for Unsaturated Soils Solving Stress Deformation Problems with Unsaturated Soils Compressibility and Pore Pressure Parameters Consolidation and Swelling Processes in Unsaturated Soils Unsaturated Soil Mechanics in Engineering Practice is essential reading for geotechnical engineers civil engineers and undergraduate and graduate level civil engineering students with a focus on soil mechanics

General Chemistry Donald A. McQuarrie, Stanley Gill, 2011-06-15 This Fourth Edition of McQuarrie s classic text offers a thorough revision and a quantum leap forward from the previous edition Taking an atoms first approach it promises to be another ground breaking text in the tradition of McQuarrie s many previous works This outstanding new text available in a soft cover edition offers professors a fresh choice and outstanding value

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Martha Mackin, 2012-12-02 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students

Master Resource Book in Chemistry for JEE Main 2022 Sanjay Sharma, 2021-08-26 1 The Master Resource book gives complete coverage of Chemistry 2 Questions are specially prepared for AIEEE consisting 35 chapters from JEE Mains 4 Each chapter is accessorized with 2 Level Exercises and Exam Questions 5 Includes highly useful JEE Main Solved papers Comprehensively covering all topics of JEE Main Syllabus here s presenting the revised edition of Master Resource Book for JEE Main Chemistry that is comprised for a systematic mastery of a subject with paramount importance to a problem solving Sequenced as per the syllabus of class 11th 12th this book has been divided into two parts accordingly Each chapter is contains essential theoretical concepts along with sufficient number of solved paper examples and problems for practice To get the insight of the difficulty level of the paper every chapter is provided with previous years question of AIEEE JEE Single Correct Answer Types and Numerical Value Questions cover all types of questions TOC PART I Some Basic Concepts of Chemistry Atomic Structure Classification of Elements Periodicity in Properties Chemical Bonding and Molecular Structure States of Matter Gaseous and Liquid States Chemical Thermodynamics Equilibrium Redox Reactions Hydrogen s Block Elements p Block Elements I Purification and Characterisation of Organic Compounds Organic Compounds and their Nomenclature Isomerism in Organic Compounds Some Basic Principles of Organic Chemistry Hydrocarbons Environmental Chemistry PART II Solid State Solutions Electrochemistry Chemical Kinetics Surface Chemistry General Principles and Processes of Isolation of Metals p Block Elements II d and f Block Elements Coordination Compounds Organic Compounds Containing Halogens Organic Compounds

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







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