

Chemical Equilibrium Practice Problems

1. Oxides of nitrogen form from air heated to high temperatures inside auto engines. What is the equilibrium concentration of nitrogen monoxide if the equilibrium concentration of nitrogen is 0.36 M and that of oxygen is 0.010 M?

$$K = 0.0025$$



2. A flask is initially 0.050 M in both NO_2 and N_2O_4 . Which will be present in greater amount at equilibrium?

$$K = 0.50$$



3. Carbon dioxide forms from the reaction of calcium carbonate with an acid.



Analyze the changes below for the effectiveness of increasing the amount of carbon dioxide at equilibrium

a. add Salt, NaCl

b. add more acid

c. add a base

4. Chlorine for pool disinfection is often formed by mixing solid bleach and hydrochloric acid:



Analyze the changes below for effectiveness in increasing the amount of Cl_2 concentration at equilibrium

a. add salt, NaCl

b. add a base

c. add more solid bleach.

5. Catalytic converters change harmful carbon monoxide into safer carbon dioxide:



If this reaction was done in a smaller reaction chamber, would the equilibrium shift right or left?

6. Ammonia gas is formed through the Haber Process:



If this reaction was done in a larger reaction chamber, would the equilibrium shift right or left?

7. Chloroform, CHCl_3 , can be converted to carbon tetrachloride, CCl_4 , by the reaction below:



If you begin with 0.10 M of all substances, will the reaction form more products or more reactants?

8. In a 10.0 L vessel, 0.500 mol H_2 and 0.500 mol I_2 react at 448°C according to the equation



At this temperature $K = 50$ for this reaction. Find the equilibrium concentration for all three species.

Aqueous Chemical Equilibrium Practice Problems

James N. Jensen



Aqueous Chemical Equilibrium Practice Problems:

Fundamentals of Atmospheric Modeling Mark Z. Jacobson, 1999 Comprehensive graduate text describing the atmospheric processes numerical methods and computational techniques needed for those studying air pollution and meteorology

A Problem-Solving Approach to Aquatic Chemistry James N. Jensen, 2023-01-05 A Problem Solving Approach to Aquatic Chemistry Enables civil and environmental engineers to understand the theory and application of aquatic equilibrium chemistry The second edition of A Problem Solving Approach to Aquatic Chemistry provides a detailed introduction to aquatic equilibrium chemistry calculation methods for systems at equilibrium applications of aquatic chemistry and chemical kinetics The text directly addresses two required ABET program outcomes in environmental engineering chemistry including stoichiometry equilibrium and kinetics and material and energy balances fate and transport of substances in and between air water and soil phases The book is very student centered with each chapter beginning with an introduction and ending with a summary that reviews the chapter's main points To aid in reader comprehension important terms are defined in context and key ideas are summarized Many thought provoking discussion questions worked examples and end of chapter problems are also included Each part of the text begins with a case study a portion of which is addressed in each subsequent chapter illustrating the principles of that chapter In addition each chapter has an Historical Note exploring connections with the people and cultures connected to topics in the text A Problem Solving Approach to Aquatic Chemistry includes Fundamental concepts such as concentration units thermodynamic basis of equilibrium and manipulating equilibria Solutions of chemical equilibrium problems including setting up the problems and algebraic graphical and computer solution techniques Acid base equilibria including the concepts of acids and bases titrations and alkalinity and acidity Complexation including metals ligands equilibrium calculations with complexes and applications of complexation chemistry Oxidation reduction equilibria including equilibrium calculations graphical approaches and applications Gas liquid and solid liquid equilibrium with expanded coverage of the effects of global climate change Other topics including chemical kinetics of aquatic systems surface chemistry and integrative case studies For advanced senior undergraduates and first year graduate students in environmental engineering courses A Problem Solving Approach to Aquatic Chemistry serves as an invaluable learning resource on the topic with a variety of helpful learning elements included throughout to ensure information retention and the ability to apply covered concepts in practical settings

General Chemistry for Engineers Jeffrey Gaffney, Nancy Marley, 2017-11-13 General Chemistry for Engineers explores the key areas of chemistry needed for engineers This book develops material from the basics to more advanced areas in a systematic fashion As the material is presented case studies relevant to engineering are included that demonstrate the strong link between chemistry and the various areas of engineering Serves as a unique chemistry reference source for professional engineers Provides the chemistry principles required by various engineering disciplines Begins with an atoms first approach building from the

simple to the more complex chemical concepts Includes engineering case studies connecting chemical principles to solving actual engineering problems Links chemistry to contemporary issues related to the interface between chemistry and engineering practices **Study Questions and Problems in Inorganic Chemistry** Alexander Silverman,1924

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Principles of Chemical Engineering Practice George DeLancey,2013-05-22 Enables chemical engineering students to bridge theory and practice Integrating scientific principles with practical engineering experience this text enables readers to master the fundamentals of chemical processing and apply their knowledge of such topics as material and energy balances transport phenomena reactor design and separations across a broad range of chemical industries The author skillfully guides readers step by step through the execution of both chemical process analysis and equipment design Principles of Chemical Engineering Practice is divided into two sections the Macroscopic View and the Microscopic View The Macroscopic View examines equipment design and behavior from the vantage point of inlet and outlet conditions The Microscopic View is focused on the equipment interior resulting from conditions prevailing at the equipment boundaries As readers progress through the text they ll learn to master such chemical engineering operations and equipment as Separators to divide a mixture into parts with desirable concentrations Reactors to produce chemicals with needed properties Pressure changers to create favorable equilibrium and rate conditions Temperature changers and heat exchangers to regulate and change the temperature of process streams Throughout the book the author sets forth examples that refer to a detailed simulation of a

process for the manufacture of acrylic acid that provides a unifying thread for equipment sizing in context The manufacture of hexyl glucoside provides a thread for process design and synthesis Presenting basic thermodynamics Principles of Chemical Engineering Practice enables students in chemical engineering and related disciplines to master and apply the fundamentals and to proceed to more advanced studies in chemical engineering **Study Guide for Chemical Principles** Thomas Elliott Taylor,1979 Soil Chemistry Daniel G. Strawn,Hinrich L. Bohn,George A. O'Connor,2020-01-28 Provides comprehensive coverage of the chemical interactions among organic and inorganic solids air water microorganisms and the plant roots in soil This book focuses on the species and reaction processes of chemicals in soils with applications to environmental and agricultural issues Topics range from discussion of fundamental chemical processes to review of properties and reactions of chemicals in the environment This new edition contains more examples more illustrations more details of calculations and reorganized material within the chapters including nearly 100 new equations and 51 new figures Each section also ends with an important concepts overview as well as new questions for readers to answer Starting with an introduction to the subject Soil Chemistry 5th Edition offers in depth coverage of properties of elements and molecules characteristics of chemicals in soils soil water chemistry redox reactions in soils mineralogy and weathering processes in soils and chemistry of soil clays The book also provides chapters that examine production and chemistry of soil organic matter surface properties of soil colloids adsorption processes in soils measuring and predicting sorption processes in soils soil acidity and salt affected soils Provides a basic description of important research and fundamental knowledge in the field of soil chemistry Contains more than 200 references provided in figure and table captions and at the end of the chapters Extensively revised with updated figures and tables Soil Chemistry 5th Edition is an excellent text for senior level soil chemistry students **Fundamentals of Computational Geoscience** Chongbin Zhao,Bruce E. Hobbs,Alison Ord,2009-04-07 This monograph aims to provide state of the art numerical methods procedures and algorithms in the field of computational geoscience based on the authors own work during the last decade Although some theoretical results are provided to verify numerical ones the main focus of this monograph is on computational simulation aspects of the newly developed computational geoscience discipline The advanced numerical methods procedures and algorithms presented are also applicable to a wide range of problems in both geological length scales and engineering length scales In order to broaden the readership common mathematical notations are used to describe the theoretical aspects of geoscience problems making it either an invaluable textbook for postgraduate students or an indispensable reference book for computational geoscientists mathematicians engineers and geoscientists **Numerical study of physico- chemical interactions for CO2 sequestration and geothermal energy utilization in the Ordos Basin, China** Hejuan Liu,2014-11-10 In this dissertation three simulators i e TOUGH2MP TOUGHREACT and FLAC3D were used to simulate the complex physical and chemical interactions induced by CO2 sequestration The simulations were done instages ranging from the two phase water

and CO₂ fluid flow H₂ through coupled hydro mechanical effects H₂M and geochemical responses i.e CO₂ water rock interactions H₂C to the extension of CCS to CCUS by the application of combined geothermal production and CO₂ sequestration technologies The findings of this study are essential for a thorough understanding of the complex interactions in the multiphase multicomponent porous media controlled by different physical and chemical mechanisms Furthermore the simulation results will provide an invaluable reference for field operations in CCS projects especially for the full integration pilot scale CCS project launched in the Ordos Basin Subsequently a preliminary site selection scheme for the combined geothermal production and CO₂ sequestration was set up which considered various factors involved in site selection ranging from safety economical environmental and technical issues This work provides an important framework for the combined geothermal production and CO₂ sequestration project However further numerical and field studies are still needed to improve on a series of criteria and related parameters necessary for a better understanding of the technology

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