

Exploring Equilibrium: It Works Both Ways

Student Laboratory Kit

Introduction

The word *equilibrium* has two roots: *aequi*, meaning equal, and *libra*, meaning weight or balance. Our physical sense of equilibrium suggests a condition of equal balance of opposing forces. How does this physical sense of equilibrium translate to chemical equilibrium? The purpose of this lab is to explore the nature and consequences of equilibrium in a variety of chemical reactions.



Chemical Concepts

- Reversible chemical reaction
- Chemical equilibrium
- LeChâtelier's Principle
- Endothermic vs. exothermic reactions

Background

In our first exposure to the nature of chemical change, we learn to distinguish between chemical and physical changes by emphasizing that physical changes can be easily reversed. In contrast, early examples of chemical change often feature reactions that cannot be reversed, such as burning wood, rusting metal, or spoiling food. A closer look at chemical change, however, reveals that many chemical reactions are indeed reversible.

Consider the following example of a reversible chemical reaction. Nitrogen and hydrogen gas react under high-pressure conditions to make ammonia. At relatively high temperatures, however, ammonia decomposes to reform the nitrogen and hydrogen starting materials. The reaction can go both ways! This reversible chemical reaction is represented symbolically using double arrows, as shown in Equation 1.



Equation 1

What happens when nitrogen gas and hydrogen gas are allowed to react? As ammonia is produced, the amounts of nitrogen and hydrogen decrease and the amount of ammonia begins to increase. As the concentration of ammonia increases, however, the reverse reaction begins to take place at a significant rate as well. Eventually, the amount of ammonia consumed due to the reverse reaction becomes equal to the amount of ammonia formed in the forward reaction. At this point, no further changes are observed in the amounts of either the reactants or product. This is the position of chemical equilibrium.

Chemical equilibrium is defined as the state where the concentrations of reactants and products remain constant with time. This does not mean that both reactions have stopped. Both the forward and reverse reactions are still taking place, but at equal rates, so the amounts of reactants and products remain constant. Chemical equilibrium represents an equal balance of opposing forces due to the forward and reverse reactions.

LeChâtelier's Principle

What happens when the balance is disturbed—due to changes in reactant and product concentrations, temperature, or pressure, for example? *LeChâtelier's Principle* provides an intuitive explanation for how balance can be restored:

"If an equilibrium system is subjected to a stress,
the system will react in such a way as to remove the stress."

Exploring Equilibrium It Works Both Ways Lab

Roger Frost



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Job Creation and Local Economic Development OECD,2014-11-19 This publication highlights new evidence on policies to support job creation bringing together the latest research on labour market entrepreneurship and local economic development policy to help governments support job creation in the recovery **Basic Research Resumés** ,1959

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Plessner, Robert C. Eklund, 2023-02-25 This textbook covers topics in sport and exercise psychology for students of psychology and sport science as well as for sport practitioners who want to understand topics in sport psychology in more detail and depth The book is divided into two main parts Theory and Application The first part covers the theoretical facets of sport and exercise psychology and the close link between theory and practice divided into the sub disciplines of psychology cognition motivation emotion personality and development and social processes The second part focuses on the applications of sport and exercise psychology in the context of performance and health With contributions from scholars across the globe the book offers an international and timely perspective on the key fundamentals of sport psychology Taken together these chapters provide a challenging yet accessible overview of the larger field of sport and exercise psychology This book is suitable for readers at different levels of competence supported with didactic elements learning objectives and learning control questions to find the right learning level

Quarterly Bulletin of the Canadian Mining Institute Canadian Institute of Mining and Metallurgy, Canadian Institute of Mining, Metallurgy and Petroleum, 1928

Scour and Erosion Liang Cheng, Scott Draper, Hongwei An, 2014-11-06 The 7th International Conference on Scour and Erosion ICSE 2014 was organised by the School of Civil Environmental and Mining Engineering and the Centre for Offshore Foundation Systems at the University of Western Australia under the guidance of the Technical Committee 213 for Scour and Erosion of the International Society of Soil Mechanics and Geotechnical Engineering ISSMGE This biennial conference draws together leading academics scientists and engineers engaged in scour and erosion research to present and exchange their latest scientific findings These proceedings together with the six previous proceedings dating from 2002 present a rare collection of technical and scientific developments in scour and erosion research which have been established over the last 12 years This book includes state of the art papers in scour and erosion from ICSE 2014 covering the 6 themes of internal erosion sediment transport advanced numerical modelling of scour and erosion terrestrial scour and erosion river bridge scour and erosion and marine scour and erosion The proceedings include 5 keynote lectures from world leading researches cutting across the themes of scour and erosion together with 87 peer reviewed papers from 19 countries This book is ideal for researchers and industry working at the forefront of scour and erosion both with application to rivers and marine operations

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977-03

Nuclear Science Abstracts , 1973 **Software for Teaching Science** Roger Frost, 1998 *ECAI 94 Proceedings* A. G.

Cohn, 1994-11 A collection of refereed papers presented at the 11th European Conference on Artificial Intelligence held in Amsterdam The Netherlands in August 1994

The Sociology of Disruption, Disaster and Social Change Hendrik

Vollmer, 2013-04-18 Hendrik Vollmer explores how disruption triggers social change refocusing members of a collective on matters of membership status and coalition

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