

Chemical equilibrium (reversible reactions)

Comprehension Passages with Activities & Diverse Assessments.

Reading Comprehension - 9

Industrial Applications

Chemical equilibrium governs industrial reversible reactions optimizing production. The Haber process ($N_2 + 3H_2 \rightleftharpoons 2NH_3$) uses high pressure (200 atm) and moderate temperature (400°C) with iron catalysts to maximize ammonia fertilizers, balancing yield (favored by low temperature) - rate (needing heat) in sulfuric acid synthesis ($2SO_2 + O_2 \rightleftharpoons 2SO_3$). High pressure and V_2O_5 catalysts favor SO_3 , 1 converted to H_2SO_4 . Equilibrium constants guide conditions: large K reactions (e.g., SO_3 formation) need less or removing products like $NaCl$ shifts equilibrium right, boost output. These principles, rooted since the early 20th century, rely on Le Chatelier to tweak variables, ensuring efficiency & cost-effectiveness. Equilibrium's predictability drives chem engineering from fuels to pharmaceuticals, linking their global industry.

Comprehension Questions

1. What is chemical equilibrium in reversible reactions?

2. Why is equilibrium considered dynamic?

3. How is the equilibrium constant (K_c) calculated?

4. How does Le Chatelier's Principle predict shifts?

5. How does temperature affect equilibrium?

True or False

Read each statement and circle if it is True or False.

Minimum pressure reactions stop.	✓	✗
Minimum is dynamic.	✓	✗
Low concentration favors.	✓	✗
Catalysts shift equilibrium with catalysts.	✓	✗
Temperature favors exothermic reactions.	✓	✗
High pressure favors more gas moles.	✓	✗
High reactions shift to products.	✓	✗
Adding change equilibrium position.	✓	✗
Initial pressure makes K_c .	✓	✗
High K_c means SO_3 is favored.	✓	✗

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Physical Chemistry Gordon M. Barrow, 1988 Includes glossary and index Chemistry³ Andrew Burrows, John Holman, Andrew Parsons, Gwen Pilling, Gareth Price, 2017 Chemistry³ establishes the fundamental principles of all three strands of chemistry organic inorganic and physical By building on what students have learned at school using carefully worded explanations annotated diagrams and worked examples it presents an approachable introduction to chemistry and its relevance to everyday life **Objective Question Bank in Chemistry** B.K. Sharma, 1997 **Water Quality Engineering** Mark M. Benjamin, Desmond F. Lawler, 2013-06-13 Explains the fundamental theory and mathematics of water and wastewater treatment processes By carefully explaining both the underlying theory and the underlying mathematics this text enables readers to fully grasp the fundamentals of physical and chemical treatment processes for water and wastewater Throughout the book the authors use detailed examples to illustrate real world challenges and their solutions including step by step mathematical calculations Each chapter ends with a set of problems that enable readers to put their knowledge into practice by developing and analyzing complex processes for the removal of soluble and particulate materials in order to ensure the safety of our water supplies Designed to give readers a deep understanding of how water treatment processes actually work Water Quality Engineering explores Application of mass balances in continuous flow systems enabling readers to understand and predict changes in water quality Processes for removing soluble contaminants from water including treatment of municipal and industrial wastes Processes for removing particulate materials from water Membrane processes to remove both soluble and particulate materials Following the discussion of mass balances in continuous flow systems in the first part of the book the authors explain and analyze water treatment processes in subsequent chapters by setting forth the relevant mass balance for the process reactor geometry and flow pattern under consideration With its many examples and problem sets Water Quality Engineering is recommended as a textbook for graduate courses in physical and chemical treatment processes for water and wastewater By drawing together the most recent research findings and industry practices this text is also recommended for professional environmental engineers in search of a contemporary perspective on water and wastewater treatment processes *Cell and Molecular Biology* Gerald Karp, 2009-10-19 Karp continues to help biologists make important connections between key concepts and experimentation The sixth edition explores core concepts in considerable depth and presents experimental detail when it helps to explain and reinforce the concepts The majority of discussions have been modified to reflect the latest changes in the field The book also builds on its strong illustration program by opening each chapter with VIP art that serves as a visual summary for the chapter Over 60 new micrographs and computer derived images have been added to enhance the material Biologists benefit from these changes as they build their skills in making the connection **Chemistry**³ Andrew Burrows, Andrew Parsons, Gwen Pilling, Gareth Price, 2013-03-21 New to this Edition JEE Advanced 2024 - TestPrap Book [English Edition]| Joint Entrance Examination | 20 Practice Mock

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