Chapter 6 Equilibrium

Question 6.12:

A mixture of 1.57 mol of N_2 , 1.92 mol of H_2 and 8.13 mol of NH_3 is introduced into a 20 L reaction vessel at 500 K. At this temperature, the equilibrium constant, K_c for the reaction $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g)$ is 1.7×10^2 . Is the reaction mixture at equilibrium? If not, what is the direction of the net reaction?

≤ Answer 6.12:

The given reaction is:

$$N_2(g) + 3H_2(g) \implies 2NH_3(g)$$

The given concentration of various species is

$$[N_2] = \frac{1.57}{20} \text{ mol } L^{-1} [H_2] = \frac{1.92}{20} \text{ mol } L^{-1}$$

 $\Rightarrow [NH_3] = \frac{8.13}{20} \text{ mol } L^{-1}$

Now, reaction quotient Q, is:

$$Qc = \frac{[NH_3]^2}{[N_2][N_2]^3}$$

$$= \frac{\left(\frac{8.13}{20}\right)^2}{\left(\frac{1.57}{20}\right)\left(\frac{1.92}{20}\right)^3} = 2.4 \times 10^3$$

Since, $Q_c \neq K_c$ the reaction mixture is not at equilibrium.

Again, $Q_c > K_c$ Hence, the reaction will proceed in the reverse direction.

Question 6.13:

The equilibrium constant expression for a gas reaction is,

$$K_c = \frac{[NH_3]^4 [O_2]^3}{[NO]^4 [H_2O]^6}$$

Write the balanced chemical equation corresponding to this expression.

Answer 6.13:

The balanced chemical equation corresponding to the given expression can be written as: $4NO(g) + 6H_1O(g) \implies 4NH_1(g) + 5O_1(g)$

World Of Chemistry Chapter 6

SJ Ball

World Of Chemistry Chapter 6:

Elements, Atoms, Molecules: A Journey through the World of Chemistry Pasquale De Marco, 2025-08-12 Chemistry is the study of matter and its properties as well as the changes it undergoes It is a vast and complex field that encompasses everything from the smallest atoms to the largest molecules Chemistry plays a vital role in our everyday lives from the food we eat to the clothes we wear to the medicines we take This book is an introduction to the fundamental principles of chemistry It is designed for students who have no prior knowledge of the subject but it is also accessible to those who want to review or expand their understanding of chemistry The book is divided into ten chapters each of which covers a different aspect of chemistry The first chapter introduces the basic concepts of matter and its properties The second chapter discusses the structure of atoms and the periodic table The third chapter explores the different types of chemical bonds and the molecules they form The fourth chapter delves into the laws of chemical change including stoichiometry energy and equilibrium The fifth chapter examines the states of matter including gases liquids solids and solutions The sixth chapter introduces the principles of thermodynamics including entropy and free energy The seventh chapter focuses on electrochemistry including oxidation reduction reactions batteries and fuel cells The eighth chapter explores nuclear chemistry including nuclear structure radioactivity and nuclear power The ninth chapter examines organic chemistry including the chemistry of carbon hydrocarbons and polymers The tenth and final chapter discusses the role of chemistry in everyday life including food chemistry pharmaceuticals and environmental chemistry Throughout the book there are numerous examples and applications of chemistry in the real world. These examples help to illustrate the concepts being discussed and show how chemistry is used to solve problems and improve our lives Whether you are a student a teacher or simply someone who is interested in learning more about chemistry this book is a valuable resource It provides a clear and concise introduction to the fundamental principles of chemistry and it is packed with interesting and informative examples If Journey into the World of Chemistry Nicky Huys, 2023-05-17 Journey into the World of you like this book write a review Chemistry is a captivating exploration of the fundamental principles fascinating phenomena and practical applications of chemistry From the significance of chemistry in understanding matter and its transformations to the frontiers of cutting edge research this book offers a comprehensive and accessible journey through the captivating realm of chemistry Delve into the foundations of chemistry uncovering the scientific methods measurement techniques and the properties of matter Discover the intricate world of atomic structure explore the periodic table and unravel the mysteries of chemical bonding and molecular shapes Gain insights into the states of matter their transformations and the laws that govern them Unleash your understanding of chemical reactions and equations stoichiometry and the mole concept Embark on a captivating exploration of various types of chemical reactions including combustion precipitation and redox reactions Unveil the secrets of electron configuration and delve into the quantum model expanding your knowledge of the building blocks of matter Uncover the

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Genomics Applications for the Developing World Karen E. Nelson, Barbara Jones-Nelson, 2012-05-10 This book evolved

from the editors strong belief that the information and new developments that were evolving from the rapidly growing field of genomics and that are happening primarily in the developed world have not happened at a parallel rate in the developing world One would have hoped that by now the technologies and approaches would have been adapted on a far greater scale In addition to this the associated information is not always easily accessible and is not disseminated in a format that can become a useful reference for scientists students and others who reside in developing countries **The Thriving World of Plants:** From Ancient Origins to Modern Marvels Pasquale De Marco, 2025-08-15 In the heart of nature s grand tapestry where life intertwines and thrives lies a world teeming with wonder and resilience the realm of plants The Tapestry of Life Unveiling the Secrets of Plant Evolution invites you on an awe inspiring journey through the extraordinary saga of plants from their humble origins to their triumphant dominance of Earth's ecosystems Unravel the captivating story of plant evolution a tale of adaptation resilience and interdependence that has shaped our planet for billions of years Discover how plants through their remarkable ability to harness sunlight have transformed Earth's atmosphere making it habitable for life as we know it Delve into the intricate relationships between plants and animals revealing a delicate dance of symbiosis that sustains the very fabric of life Explore the crucial role plants play in maintaining the health of our planet As guardians of the Earth s atmosphere they tirelessly purify the air we breathe absorbing carbon dioxide and releasing life giving oxygen Embark on a journey into the depths of forests and the vastness of oceans uncovering the remarkable ways plants regulate the water cycle ensuring a continuous flow of life sustaining moisture Witness the profound impact plants have had on human societies throughout history From providing sustenance and medicine to inspiring art and literature plants have played an integral role in shaping human civilization Their beauty and resilience have captivated our imaginations inspiring countless works of art music and poetry Join us on this captivating odyssey as we celebrate the wonders of the plant kingdom unraveling the secrets of their evolution and exploring their profound impact on our planet and lives Discover the remarkable stories of adaptation resilience and interdependence that have shaped the world we live in Let us delve into the Tapestry of Life where plants take center stage as the unsung heroes of our planet's story Within these pages you will embark on a journey that will transform your understanding of plants and their vital role in our world The Tapestry of Life Unveiling the Secrets of Plant

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