

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:



The given concentration of various species is

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

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

Now, reaction quotient Q_c is:

$$Q_c = \frac{[NH_3]^2}{[N_2][H_2]^3}$$

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

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,

$$K_c = \frac{[NH_3]^4 [O_2]^5}{[NO]^4 [H_2O]^5}$$

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:



World Of Chemistry Chapter 6

CL Gary



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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 is packed with interesting and informative examples. If you like this book, write a review.

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decade are made and important information is related regarding impacts on the environment

Demystifying the Complexities of Supramolecular Systems: Real World Applications Bhatt, Keyur D.,2025-09-18 Supramolecular systems offer a versatile approach to solving complex challenges in science and technology These systems allow for the creation of highly organized structures with dynamic and reversible properties Unveiling the complexities of supramolecular chemistry helps unlock their potential in real world applications spanning fields like drug delivery materials science environmental science and nanotechnology By harnessing the principles of self assembly and molecular recognition supramolecular systems can be engineered to perform specific tasks with precision providing solutions like sustainable energy personalized medicine and pollution control Understanding these systems may advance their practical use bridging the gap between research and real world application Demystifying the Complexities of Supramolecular Systems Real World Applications explores transformations occurring in the realm of chemistry It examines isolated molecules and supramolecular systems shedding light on the pivotal role of molecular self assembly and non covalent interactions This book covers topics such as chemical science nanomedicine and sustainable development and is a useful resource for scientists chemists engineers academicians environmentalists and researchers

A World from Dust Benjamin J. McFarland,2016 In A World From Dust Ben McFarland brings together the latest genetic chemical mathematic and geological evidence to tell the story of how life has evolved on this planet over billions of years

The World in a Crucible Sally Newcomb,2009-01-01 Geology coalesced as a discipline in the early part of the nineteenth century with the coming together of many strands of investigation and thought The theme of experimentation and or instrument aided observation is absent from most recent accounts of that time which rely on an admixture of theory and field observations informed by close examination of minerals James Hutton emerged as the person who had it right with suggestion of a central heat source for Earth while Abraham Gottlob Werner and his Neptunist supporters were derided as being blinded by overarching belief as opposed to sober application of observed facts However despite several claims that Hutton had won the day primary literature from both England and the Continent reveals that the question was by no means settled for decades after Hutton derided information derived from looking into a little crucible This Special Paper makes the case that it was just those parameters of heat pressure solution and composition discovered in the laboratory that prevented resolution of the overriding questions about rock origin

Adventures in the World of Science Pasquale De Marco, Journey into the captivating world of science with Adventures in the World of Science an enthralling exploration of the wonders of the natural world and the profound impact of scientific discovery on our lives Within these pages you ll embark on an extraordinary adventure unraveling the mysteries of the universe and gaining a deeper understanding of the forces that shape our existence From the fundamental laws of physics to the intricate workings of biology Adventures in the World of Science delves into the heart of scientific inquiry revealing the interconnectedness of all things Explore the vast expanse of space where astronomers unlock the secrets of distant stars galaxies and the enigmatic

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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 Evolution is an invitation to see the world through new eyes to appreciate the delicate balance of nature and the extraordinary resilience of life If you like this book write a review *A World on Fire* Joe Jackson,2007-02-27 Like Charles Seife s Zero and Dava Sobel s Longitude this passionate intellectual history is the story of the intersection of science and the human in this case the rivals who discovered oxygen in the late 1700s That breakthrough changed the world as radically as those of Newton and Darwin but was at first eclipsed by revolution and reaction In chronicling the triumph and ruin of the English freethinker Joseph Priestley and the French nobleman Antoine Lavoisier the former exiled the latter executed on the guillotine *A World on Fire* illustrates the perilous place of science in an age of unreason *The World's Greatest Fix* G. J. Leigh,2004-08-19 In the tradition of Jared Diamond s Guns Germs and Steel this gives the very early history of how human ingenuity overcame the risk of famine through productive agriculture Starting with a layman s guide to the chemistry of nitrogen fixation the book goes on to show how humans emerged from nomadic lifestyles and began developing towns and settlements When they for the first time began planting the same fields year after year they noticed quickly the

need to ensure soil fertility But how The method they came up with is still in use to this day *Solar Power for the World*
Wolfgang Palz,2013-10-21 The book describes the industrial revolution associated with the implementation of electric power generation by photovoltaics PV The book s editor and contributing authors are among the leading pioneers in PV from its industrial birth in 1954 all the way up to the stormy developments during the first decade of the new century The book describes **Inquiries and Answers To The World** Pasquale De Marco,2025-07-27 Inquiries and Answers to the World is an intellectual journey that explores life s profound questions delving into the mysteries of the universe the nature of reality and the meaning of existence This book is not a mere collection of facts it is an invitation to engage in critical thinking to question assumptions and to delve into the depths of human knowledge Each chapter embarks on a different realm of inquiry from the vastness of the cosmos to the intricacies of the human mind from the complexities of society to the wonders of nature Readers will encounter diverse perspectives challenge conventional wisdom and grapple with uncertainties as they explore the nature of truth the limits of science and the role of technology in shaping our lives Inquiries and Answers to the World examines the challenges facing humanity from global conflicts to environmental degradation and ponders the possibilities for a better future It cultivates a deeper understanding of ourselves our world and our place within it fostering a spirit of intellectual curiosity embracing doubt as a catalyst for growth and appreciating the beauty and wonder of the unknown This book is an invitation to engage in a lifelong pursuit of knowledge and wisdom to cultivate a curious mind and to find meaning and purpose in the vast tapestry of life It is a journey of exploration enlightenment and self discovery where readers are empowered to question the world around them and to seek answers to the most perplexing questions of existence Inquiries and Answers to the World is a thought provoking and insightful exploration of life s greatest mysteries a book that will challenge readers to think critically to question assumptions and to embark on a lifelong journey of intellectual discovery If you like this book write a review

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