

7. At a high temperature, 0.50 mol of HBr was placed in a 1.0 L container and allowed to decompose according to the reaction:



At equilibrium the  $[\text{Br}_2]$  was measured to be 0.13 M. What is  $K_{\text{eq}}$  for this reaction at this temperature?

$$2\text{HBr} \rightleftharpoons \text{H}_2 + \text{Br}_2$$

[I]	0.50	0	0
[C]	-0.26	+0.13	+0.13
[E]	0.24	0.13	0.13

$$K_{\text{eq}} = \frac{[\text{H}_2][\text{Br}_2]}{[\text{HBr}]^2} = \frac{(0.13)^2}{(0.24)^2} = 0.29$$

Answer  $K_{\text{eq}} = 0.29$

8. When 1.0 mol of  $\text{NH}_3\text{(g)}$  and 0.40 mol of  $\text{N}_2\text{(g)}$  are placed in a 5.0 L vessel and allowed to reach equilibrium at a certain temperature, it is found that 0.78 mol of  $\text{NH}_3$  is present. The reaction is:



$$\text{initial } [\text{NH}_3] = \frac{1.0 \text{ mol}}{5.0 \text{ L}} = 0.20 \text{ M} \quad \text{initial } [\text{N}_2] = \frac{0.40 \text{ mol}}{5.0 \text{ L}} = 0.080 \text{ M}$$

$$\text{Equil. } [\text{NH}_3] = \frac{0.78 \text{ mol}}{5.0 \text{ L}} = 0.156 \text{ M}$$

$$2\text{NH}_3 \rightleftharpoons 3\text{H}_2 + \text{N}_2$$

[I]	0.20	0	0.080
[C]	-0.044	+0.066	+0.022
[E]	0.156	0.066	0.102

- a) Calculate the equilibrium concentrations of all three species.

$$[\text{NH}_3] = 0.16 \text{ M} \quad [\text{H}_2] = 0.066 \text{ M} \quad [\text{N}_2] = 0.10 \text{ M}$$

- b) Calculate the value of the equilibrium constant at this temperature.

(use unrounded concs, then round to 2 sigs)

$$K_{\text{eq}} = \frac{[\text{H}_2]^3 [\text{N}_2]}{[\text{NH}_3]^2} = \frac{(0.066)^3 (0.102)}{(0.156)^2} = 0.0012$$

Answer  $1.2 \times 10^{-3}$

- c) How many moles of  $\text{H}_2$  are present at equilibrium?

$$0.066 \text{ M} \times 5.0 \text{ L} = 0.33 \text{ mol}$$

Answer 0.33 mol

- d) How many moles of  $\text{N}_2$  are present at equilibrium?

$$0.102 \text{ M} \times 5.0 \text{ L} = 0.51 \text{ mol}$$

Answer 0.51 mol

# Modeling Chemistry Unit Answers

**BM King**



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they present a complete decision framework for anticipating and solving tomorrow's supply chain problems. Decision makers will find practical tools, insights and guidance for systematically mitigating risks and building long term supply chain based competitive advantage. *ENC Focus*, 2000. **Assessment that Informs Practice**, 2000. Resources in Education, 1997-04. What Is Nanotechnology and Why Does It Matter? Fritz Allhoff, Patrick Lin, Daniel Moore, 2009-11-19. Ongoing research in nanotechnology promises both innovations and risks potentially and profoundly changing the world. This book helps to promote a balanced understanding of this important emerging technology offering an informed and impartial look at the technology, its science and its social impact and ethics. Nanotechnology is crucial for the next generation of industries, financial markets, research labs and our everyday lives. This book provides an informed and balanced look at nanotechnology and its social impact. Offers a comprehensive background discussion on nanotechnology itself including its history, its science and its tools, creating a clear understanding of the technology needed to evaluate ethical and social issues. Authored by a nanoscientist and philosophers, offers an accurate and accessible look at the science while providing an ideal text for ethics and philosophy courses. Explores the most immediate and urgent areas of social impact of nanotechnology.

*Polymer Science: A Comprehensive Reference*, 2012-12-05. The progress in polymer science is revealed in the chapters of *Polymer Science: A Comprehensive Reference*. Ten Volume Set. In Volume 1, this is reflected in the improved understanding of the properties of polymers in solution, in bulk and in confined situations such as in thin films. Volume 2 addresses new characterization techniques such as high resolution optical microscopy, scanning probe microscopy and other procedures for surface and interface characterization. Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture, the development of metallocene and post metallocene catalysis for olefin polymerization, new ionic polymerization procedures and atom transfer radical polymerization, nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods. Volume 4 is devoted to kinetics, mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins, ROMP as well as to various less common polymerization techniques. Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5. Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates. Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently. An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7. It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films, inorganic organic hybrids or nanofibers. Volume 8 expands these concepts focusing on

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*Fundamentals of Aluminium Metallurgy* Roger Lumley, 2010-11-25 Aluminium is an important metal in manufacturing due to its versatile properties and the many applications of both the processed metal and its alloys in different industries Fundamentals of aluminium metallurgy provides a comprehensive overview of the production properties and processing of aluminium and its applications in manufacturing industries Part one discusses different methods of producing and casting aluminium covering areas such as casting of alloys quality issues and specific production methods such as high pressure diecasting The metallurgical properties of aluminium and its alloys are reviewed in Part two with chapters on such topics as hardening precipitation processes and solute partitioning and clustering as well as properties such as fracture resistance Finally Part three includes chapters on joining laser sintering and other methods of processing aluminium and its applications in particular areas of industry such as aerospace With its distinguished editor and team of expert contributors Fundamentals of aluminium metallurgy is a standard reference for researchers in metallurgy as well as all those involved in the manufacture and use of aluminium products Provides a comprehensive overview of the production properties and processing of aluminium and its applications in manufacturing industries Considers many issues of central importance in aluminium production and utilization considering quality issues and design for fatigue growth resistance Metallurgical properties of aluminium and its alloys are further explored with particular reference to work hardening and applications of industrial alloys

*Sociocultural Studies and Implications for Science Education* Catherine Milne, Kenneth Tobin, Donna DeGennaro, 2015-07-15 The chapters included in this book address two major questions what are some of the methodological and theoretical issues in sociocultural research in urban education and science education and what sort of questions do technological and virtual contexts raise for these types of research perspectives The chapters build off Ken Tobin s personal history of sociocultural research in science education and as they do each chapter asks philosophical sociological and or methodological questions that inform our understanding of the challenges associated with conducting

research in experiential and virtual contexts

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**Handbook of Environmental Engineering** Frank R. Spellman, 2023-03-20 This new edition provides a practical view of pollution and its impact on the natural environment Driven by the hope of a sustainable future it stresses the importance of environmental law and resource sustainability and offers a wealth of information based on real world observations and expert experience It presents a basic overview of environmental pollution emphasizes key terms and addresses specific concepts in advanced algebra fundamental engineering and statistics In addition it considers socioeconomic political and cultural influences and provides an understanding of how to effectively treat and prevent air pollution implement industrial hygiene principles and manage solid waste water and wastewater operations The Handbook of Environmental Engineering is written in a down to earth style for a wide audience as it appeals to technical readers consultants policymakers as well as a wide range of general readers Features Updated throughout with a new chapter on modern trends in environmental engineering the book further emphasizes climate change effects on water wastewater infrastructure Examines the physical chemical and biological processes fundamental to understanding the environment fate and engineered treatment of environmental contaminants Presents technologies to prevent pollution at the source as well as treatment and disposal methods for remediation Identifies multiple environmental pollutants and explains the effects of each Includes the latest environmental regulatory requirements

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