

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_{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 NH_3 is present. The reaction is:



$$\text{initial } [\text{NH}_3] = \frac{1.0 \text{ mol}}{5.0 \text{ L}} = 0.20 \text{ M}$$

$$\text{initial } [\text{N}_2] = \frac{0.40 \text{ mol}}{5.0 \text{ L}} = 0.080 \text{ M}$$

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

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

[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 1.2×10^{-3}

- c) How many moles of 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 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 3 1 Answers

C. Barry Carter, M. Grant Norton



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[An Introduction to Agent-Based Modeling](#) Uri Wilensky, William Rand, 2015-04-03 A comprehensive and hands on introduction to the core concepts methods and applications of agent based modeling including detailed NetLogo examples The advent of widespread fast computing has enabled us to work on more complex problems and to build and analyze more complex models This book provides an introduction to one of the primary methodologies for research in this new field of knowledge Agent based modeling ABM offers a new way of doing science by conducting computer based experiments ABM is applicable to complex systems embedded in natural social and engineered contexts across domains that range from engineering to ecology An Introduction to Agent Based Modeling offers a comprehensive description of the core concepts methods and applications of ABM Its hands on approach with hundreds of examples and exercises using NetLogo enables readers to begin constructing models immediately regardless of experience or discipline The book first describes the nature and rationale of agent based modeling then presents the methodology for designing and building ABMs and finally

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Learning Science - the Value of Crafting Engagement in Science Environments Barbara

Schneider, Joseph Krajcik, Jari Lavonen, Katariina Salmela-Aro, 2020-01-01 An innovative internationally developed system to help advance science learning and instruction for high school students This book tells the story of a 3 6 million research project funded by the National Science Foundation aimed at increasing scientific literacy and addressing global concerns of declining science engagement Studying dozens of classrooms across the United States and Finland this international team combines large scale studies with intensive interviews from teachers and students to examine how to transform science education Written for teachers parents policymakers and researchers this book offers solutions for matching science learning and instruction with newly recommended twenty first century standards Included are science activities that engage and inspire students sample lesson plans and approaches for measuring science engagement and encouragement of three dimensional learning

Foundations of Solid State Physics Siegmur Roth, David Carroll, 2019-03-22 An essential guide to solid state physics through the lens of dimensionality and symmetry Foundations of Solid State Physics introduces the essential topics of solid state physics as taught globally with a focus on understanding the properties of solids from the viewpoint of dimensionality and symmetry Written in a conversational manner and designed to be accessible the book contains a minimal amount of mathematics The authors noted experts on the topic offer an insightful review of the basic topics such as the static and dynamic lattice in real space the reciprocal lattice electrons in solids and transport in materials and devices The book also includes more advanced topics the quasi particle concept phonons solitons polarons excitons strong electron electron correlation light matter interactions and spin systems The authors approach makes it possible to gain a clear understanding of conducting polymers carbon nanotubes nanowires two dimensional chalcogenides perovskites and organic crystals in terms of their expressed dimension topological connectedness and quantum confinement This important guide Offers an understanding of a variety of technology relevant solid state materials in terms of their dimension topology and quantum confinement Contains end of chapter problems with different degrees of difficulty to enhance

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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 applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner

Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2020-03-09 *Teaching Secondary and Middle School Mathematics* combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most

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