

Physical Chemistry 2nd Edition Ball

Solutions Manual

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Chapter 7

Equilibria for Multiple Component Systems

- 7.2. With only a single component and phase, if only $\text{Fe}_2(\text{SO}_4)_3$ were present in our system, we would have $C - P + 2 = 1 - 1 + 2 = 2$ degrees of freedom.
- 7.4. For a single-component system, there will never be negative degrees of freedom. The maximum number of phases that can exist in equilibrium is three, so the Gibbs phase rule would yield $1 - 3 + 2 = 0$ degrees of freedom (like might occur at the triple point). For a two-component system, the maximum number of phases that can exist in equilibrium is four. There will never be negative degrees of freedom.
- 7.6. In this reaction, there are only three independent components (the amount of the fourth can be determined from the equilibrium constant) and 3 phases, two solids and a gas mixture. Therefore, there are $3 - 3 + 2 = 2$ degrees of freedom.
- 7.8. For water: $n = \frac{pV}{RT} = \frac{(23.76 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 6.39 \times 10^{-3} \text{ mol}$ of water is needed to ensure that there is a liquid and gas phase. This equals 0.115 grams.
For methanol:
- $$n = \frac{pV}{RT} = \frac{(125.0 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 3.36 \times 10^{-2} \text{ mol}$$
- of methanol is needed to ensure that there is a liquid and gas phase. This equals 1.08 grams.
- 7.10. Since, according to equation 7.11, $a_i = \frac{p_i}{p_i^*}$, and since $p_i^* = 760 \text{ torr}$, we can calculate a_i :

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Terry C. Jones



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Table of Contents Physical Chemistry Ball Instructor Manual

1. Understanding the eBook Physical Chemistry Ball Instructor Manual
 - The Rise of Digital Reading Physical Chemistry Ball Instructor Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Chemistry Ball Instructor Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Chemistry Ball Instructor Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Chemistry Ball Instructor Manual
 - Personalized Recommendations
 - Physical Chemistry Ball Instructor Manual User Reviews and Ratings
 - Physical Chemistry Ball Instructor Manual and Bestseller Lists
5. Accessing Physical Chemistry Ball Instructor Manual Free and Paid eBooks
 - Physical Chemistry Ball Instructor Manual Public Domain eBooks

- Physical Chemistry Ball Instructor Manual eBook Subscription Services
- Physical Chemistry Ball Instructor Manual Budget-Friendly Options
- 6. Navigating Physical Chemistry Ball Instructor Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Chemistry Ball Instructor Manual Compatibility with Devices
 - Physical Chemistry Ball Instructor Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Chemistry Ball Instructor Manual
 - Highlighting and Note-Taking Physical Chemistry Ball Instructor Manual
 - Interactive Elements Physical Chemistry Ball Instructor Manual
- 8. Staying Engaged with Physical Chemistry Ball Instructor Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Chemistry Ball Instructor Manual
- 9. Balancing eBooks and Physical Books Physical Chemistry Ball Instructor Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Chemistry Ball Instructor Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Chemistry Ball Instructor Manual
 - Setting Reading Goals Physical Chemistry Ball Instructor Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Chemistry Ball Instructor Manual
 - Fact-Checking eBook Content of Physical Chemistry Ball Instructor Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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