

SOLUTION

$$w = - \int_{V_1}^{V_2} P dV \quad P = \frac{RT}{V-b} - \frac{a}{V^2}$$

$$w = - \int_{V_1}^{V_2} \frac{RT}{v-b} dV \quad \text{?} \quad \int_{V_1}^{V_2} \frac{a}{V^2} dV$$

$$= - RT \ln \frac{V_2-b}{V_1-b} + a \left(\frac{1}{V_1} - \frac{1}{V_2} \right)$$

✓1.9 Are the following expressions exact differentials?

(a) $xy^2 dx - x^2 y dy$

(b) $\frac{dx}{y} - \frac{x}{y^2} dy$

SOLUTION

(a) Taking the cross derivatives

$$\frac{\partial xy^2}{\partial y} = 2xy$$

$$\frac{\partial (-x^2 y)}{\partial x} = -2xy$$

Since the cross derivatives are unequal, the expression is not an exact differential.

(b) $\frac{\partial (1/y)}{\partial y} = - \frac{1}{y^2}$

$$\frac{\partial (-x/y^2)}{\partial x} = - \frac{1}{y^2}$$

Since the cross derivatives are equal, the expression is an exact differential.

1.10 A mole of liquid water is vaporized at 100 °C and 1.013 bar. The heat of vaporization is 40.69 kJ mol⁻¹. What are the values of (a) w_{rev} , (b) q , (c) ΔU , and (d) ΔH ?

SOLUTION

(a) Assuming that water vapor is a perfect gas and that the volume of liquid water

Physical Chemistry Robert Alberty Solution Manual

Julia Schneider



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Table of Contents Physical Chemistry Robert Alberty Solution Manual

1. Understanding the eBook Physical Chemistry Robert Alberty Solution Manual
 - The Rise of Digital Reading Physical Chemistry Robert Alberty Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Chemistry Robert Alberty Solution 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 Robert Alberty Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Chemistry Robert Alberty Solution Manual
 - Personalized Recommendations
 - Physical Chemistry Robert Alberty Solution Manual User Reviews and Ratings

- Physical Chemistry Robert Alberty Solution Manual and Bestseller Lists
- 5. Accessing Physical Chemistry Robert Alberty Solution Manual Free and Paid eBooks
 - Physical Chemistry Robert Alberty Solution Manual Public Domain eBooks
 - Physical Chemistry Robert Alberty Solution Manual eBook Subscription Services
 - Physical Chemistry Robert Alberty Solution Manual Budget-Friendly Options
- 6. Navigating Physical Chemistry Robert Alberty Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Chemistry Robert Alberty Solution Manual Compatibility with Devices
 - Physical Chemistry Robert Alberty Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Chemistry Robert Alberty Solution Manual
 - Highlighting and Note-Taking Physical Chemistry Robert Alberty Solution Manual
 - Interactive Elements Physical Chemistry Robert Alberty Solution Manual
- 8. Staying Engaged with Physical Chemistry Robert Alberty Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Chemistry Robert Alberty Solution Manual
- 9. Balancing eBooks and Physical Books Physical Chemistry Robert Alberty Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Chemistry Robert Alberty Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Chemistry Robert Alberty Solution Manual
 - Setting Reading Goals Physical Chemistry Robert Alberty Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Chemistry Robert Alberty Solution Manual
 - Fact-Checking eBook Content of Physical Chemistry Robert Alberty Solution 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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