

Mastering Physics Assignment - '19-3 Specific Heats'

Problem 19.24

[Part A]

1 → 2 constant pressure

$$\therefore \Delta Q = n C_p \Delta T$$

initials

$$P_i = 3.0 \text{ atm}$$

$$V_i = 300 \text{ cm}^3$$

$$T_i = 300^\circ\text{C}$$

$$\therefore pV = nRT$$

$$\therefore T = \frac{pV}{nR}$$

$$\therefore \Delta Q = n \times C_p \times \frac{3}{2R} (P_f V_f - P_i V_i)$$

$$= C_p (P_f V_f - P_i V_i) \times \frac{3}{2R}$$

$$= 20.8 \left(3.0 \times 101.3 \times 10^3 \times 300 \times \left(\frac{3}{300}\right)^3 - \right.$$

$$\left. 3.0 \times 101.3 \times 10^3 \times 300 \times \left(\frac{3}{300}\right)^3 \right) \times \frac{3}{2R}$$

$$= 152.3 \text{ J}$$

(Ans)

[Part B]

2 → 3 (constant volume)

$$\therefore \Delta Q = n C_v \Delta T$$

initials

$$P_i = 3.0 \text{ atm}$$

$$V_i = 300 \text{ cm}^3$$

$$T_i = ?$$

$$pV = nRT$$

$$\therefore T = \frac{pV}{nR}$$

$$\therefore \Delta Q = n \times C_v \times \frac{3}{2R} (P_f V_f - P_i V_i)$$

finals

$$P_f = 3.0 \text{ atm}$$

$$V_f = 300 \text{ cm}^3$$

$$T_f = ?$$

extension of part B:

$$\Delta Q = C_v \times \frac{3}{2R} \times (P_f V_f - P_i V_i)$$

$$= 12.5 \times \frac{3}{2 \times 8.314} \times \left(3 \times 101.3 \times 10^3 \times 300 - \left(\frac{3}{300}\right)^3 \right.$$

$$\left. - 3.0 \times 101.3 \times 10^3 \times 300 \times \left(\frac{3}{300}\right)^3 \right)$$

$$= -91.38 \text{ J}$$

(Ans)

Problem 19.54

[Part A]

initials

$$P_i =$$

$$V_i$$

$$T_i$$

$$pV = nRT$$

$$\therefore P_i V_i = P_f V_f$$

$$\therefore P_i V_i = P_f \cdot 2V_i$$

finals

$$P_f =$$

$$V_f = 2V_i$$

$$T_f = T_i$$

[Part B]

$$W = - \int_{V_i}^{V_f} p \, dV = - \int_{V_i}^{V_f} \frac{nRT}{V} \, dV$$

$$= -nRT_i \int_{V_i}^{V_f} \frac{1}{V} \, dV$$

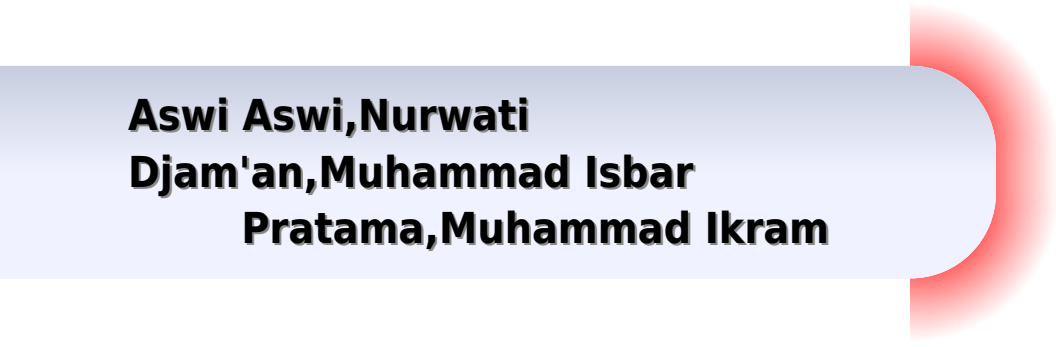
$$= -nRT_i \ln \left| \frac{V_f}{V_i} \right|$$

$$= -nRT_i \ln |2|$$

(Ans)

Solutions To Mastering Physics Problems

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Pratama, Muhammad Ikram



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Bhathal, 2010-08-04 This book is the product of more than half a century of leadership and innovation in physics education
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Table of Contents Solutions To Mastering Physics Problems

1. Understanding the eBook Solutions To Mastering Physics Problems
 - The Rise of Digital Reading Solutions To Mastering Physics Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Solutions To Mastering Physics Problems
 - 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 Solutions To Mastering Physics Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions To Mastering Physics Problems
 - Personalized Recommendations
 - Solutions To Mastering Physics Problems User Reviews and Ratings
 - Solutions To Mastering Physics Problems and Bestseller Lists
5. Accessing Solutions To Mastering Physics Problems Free and Paid eBooks
 - Solutions To Mastering Physics Problems Public Domain eBooks
 - Solutions To Mastering Physics Problems eBook Subscription Services
 - Solutions To Mastering Physics Problems Budget-Friendly Options
6. Navigating Solutions To Mastering Physics Problems eBook Formats

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- Solutions To Mastering Physics Problems Compatibility with Devices
- Solutions To Mastering Physics Problems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solutions To Mastering Physics Problems
 - Highlighting and Note-Taking Solutions To Mastering Physics Problems
 - Interactive Elements Solutions To Mastering Physics Problems
- 8. Staying Engaged with Solutions To Mastering Physics Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions To Mastering Physics Problems
- 9. Balancing eBooks and Physical Books Solutions To Mastering Physics Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions To Mastering Physics Problems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solutions To Mastering Physics Problems
 - Setting Reading Goals Solutions To Mastering Physics Problems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solutions To Mastering Physics Problems
 - Fact-Checking eBook Content of Solutions To Mastering Physics Problems
 - 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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