

Wintersemester 2019/2020 - Klausuraufgaben 8B

Aufgabe 8 (max. 70 Punkte/100% Gesamtpunkte)

Die nachstehenden Probleme betreffen die Veranschaulichung des Verhaltens der Stoffeigenschaften mittels "Diagramme" von Molanteile, Druck, Temperatur in der Zustandsform. Bei diesen Stoffen werden Stoffeigenschaften mittels 22.04.2020

$$M(P_1, T_1) = M(P_2, T_2)$$

12. Wasserstoff (molekulare Masse $M = 2$) wird in einem mit 10 MPa (Druck) und bei einer bestimmten Temperatur gehalten. Wie hoch ist die mittlere Geschwindigkeit?

$$v_{\text{rms}} = \sqrt{\frac{3k_B T}{m}} = \sqrt{\frac{3 \cdot 1,38 \cdot 10^{-23} \text{ J/K} \cdot 1000 \text{ K}}{2 \cdot 1,66 \cdot 10^{-27} \text{ kg}}} = 1500 \text{ m/s}$$

13. Stickstoff (molekulare Masse $M = 28$) wird in 10 MPa (Druck) und bei einer bestimmten Temperatur gehalten. Wie hoch ist die mittlere Geschwindigkeit?

$$v_{\text{rms}} = \sqrt{\frac{3k_B T}{m}} = \sqrt{\frac{3 \cdot 1,38 \cdot 10^{-23} \text{ J/K} \cdot 1000 \text{ K}}{28 \cdot 1,66 \cdot 10^{-27} \text{ kg}}} = 400 \text{ m/s}$$

14. Stickstoff (molekulare Masse $M = 28$) wird in 10 MPa (Druck) und bei einer bestimmten Temperatur gehalten. Wie hoch ist die mittlere Geschwindigkeit? (Druck = 10 MPa, Temperatur = 1000 K, Molmasse = 28 g/mol)

$$v_{\text{rms}} = \sqrt{\frac{3k_B T}{m}} = \sqrt{\frac{3 \cdot 1,38 \cdot 10^{-23} \text{ J/K} \cdot 1000 \text{ K}}{28 \cdot 1,66 \cdot 10^{-27} \text{ kg}}} = 400 \text{ m/s}$$

15. In einem Behälter wird Stickstoff (molekulare Masse $M = 28$) bei einer bestimmten Temperatur gehalten. Wie hoch ist die mittlere Geschwindigkeit? (Druck = 10 MPa, Temperatur = 1000 K, Molmasse = 28 g/mol)

$$v_{\text{rms}} = \sqrt{\frac{3k_B T}{m}} = \sqrt{\frac{3 \cdot 1,38 \cdot 10^{-23} \text{ J/K} \cdot 1000 \text{ K}}{28 \cdot 1,66 \cdot 10^{-27} \text{ kg}}} = 400 \text{ m/s}$$

16. Stickstoff (molekulare Masse $M = 28$) wird in 10 MPa (Druck) und bei einer bestimmten Temperatur gehalten. Wie hoch ist die mittlere Geschwindigkeit? (Druck = 10 MPa, Temperatur = 1000 K, Molmasse = 28 g/mol)

$$v_{\text{rms}} = \sqrt{\frac{3k_B T}{m}} = \sqrt{\frac{3 \cdot 1,38 \cdot 10^{-23} \text{ J/K} \cdot 1000 \text{ K}}{28 \cdot 1,66 \cdot 10^{-27} \text{ kg}}} = 400 \text{ m/s}$$

17. Stickstoff (molekulare Masse $M = 28$) wird in 10 MPa (Druck) und bei einer bestimmten Temperatur gehalten. Wie hoch ist die mittlere Geschwindigkeit? (Druck = 10 MPa, Temperatur = 1000 K, Molmasse = 28 g/mol)

Section 3 Gases Ch 11 Review Answers

Arshad Iqbal



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Table of Contents Section 3 Gases Ch 11 Review Answers

1. Understanding the eBook Section 3 Gases Ch 11 Review Answers
 - The Rise of Digital Reading Section 3 Gases Ch 11 Review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 3 Gases Ch 11 Review Answers
 - 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 Section 3 Gases Ch 11 Review Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 3 Gases Ch 11 Review Answers
 - Personalized Recommendations
 - Section 3 Gases Ch 11 Review Answers User Reviews and Ratings
 - Section 3 Gases Ch 11 Review Answers and Bestseller Lists
5. Accessing Section 3 Gases Ch 11 Review Answers Free and Paid eBooks
 - Section 3 Gases Ch 11 Review Answers Public Domain eBooks
 - Section 3 Gases Ch 11 Review Answers eBook Subscription Services
 - Section 3 Gases Ch 11 Review Answers Budget-Friendly Options
6. Navigating Section 3 Gases Ch 11 Review Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Section 3 Gases Ch 11 Review Answers Compatibility with Devices
 - Section 3 Gases Ch 11 Review Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 3 Gases Ch 11 Review Answers
 - Highlighting and Note-Taking Section 3 Gases Ch 11 Review Answers
 - Interactive Elements Section 3 Gases Ch 11 Review Answers
 8. Staying Engaged with Section 3 Gases Ch 11 Review Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 3 Gases Ch 11 Review Answers
 9. Balancing eBooks and Physical Books Section 3 Gases Ch 11 Review Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 3 Gases Ch 11 Review Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Section 3 Gases Ch 11 Review Answers
 - Setting Reading Goals Section 3 Gases Ch 11 Review Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Section 3 Gases Ch 11 Review Answers
 - Fact-Checking eBook Content of Section 3 Gases Ch 11 Review Answers
 - 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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