

Physics

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(Chapter 1) (Units and Measurement) (Exercises) (Class 11)

Question 1.14:

The unit of length convenient on the atomic scale is known as an angstrom and is denoted by Å: $1 \text{ Å} = 10^{-10} \text{ m}$. The size of a hydrogen atom is about 0.5 Å . What is the total atomic volume in m^3 of a mole of hydrogen atoms?

Answer 1.14:

Radius of hydrogen atom, $r = 0.5 \text{ Å} = 0.5 \times 10^{-10} \text{ m}$

$$\text{Volume of hydrogen atom} = \frac{4}{3} \pi r^3$$

$$= \frac{4}{3} \times \frac{22}{7} \times (0.5 \times 10^{-10})^3$$

$$= 0.524 \times 10^{-30} \text{ m}^3$$

1 mole of hydrogen contains 6.023×10^{23} hydrogen atoms.

Volume of 1 mole of hydrogen atoms

$$= 6.023 \times 10^{23} \times 0.524 \times 10^{-30}$$

$$= 3.16 \times 10^{-7} \text{ m}^3$$

Question 1.15:

One mole of an ideal gas at standard temperature and pressure occupies 22.4 L (molar volume). What is the ratio of molar volume to the atomic volume of a mole of hydrogen? (Take the size of hydrogen molecule to be about 1 Å). Why is this ratio so large?

Answer 1.15:

Radius of hydrogen atom, $r = 0.5 \text{ Å} = 0.5 \times 10^{-10} \text{ m}$

$$\text{Volume of hydrogen atom} = \frac{4}{3} \pi r^3 = \frac{4}{3} \times \frac{22}{7} \times (0.5 \times 10^{-10})^3 = 0.524 \times 10^{-30} \text{ m}^3$$

Now, 1 mole of hydrogen contains 6.023×10^{23} hydrogen atoms.

$$\therefore \text{Volume of 1 mole of hydrogen atoms, } V_a = 6.023 \times 10^{23} \times 0.524 \times 10^{-30}$$

$$= 3.16 \times 10^{-7} \text{ m}^3$$

Molar volume of 1 mole of hydrogen atoms at STP, $V_m = 22.4 \text{ L} = 22.4 \times 10^{-3} \text{ m}^3$

$$\therefore \frac{V_m}{V_a} = \frac{22.4 \times 10^{-3}}{3.16 \times 10^{-7}} = 7.08 \times 10^4$$

Hence, the molar volume is 7.08×10^4 times higher than the atomic volume. For this reason, the inter-atomic separation in hydrogen gas is much larger than the size of a hydrogen atom.

Question 1.16:

Explain this common observation clearly: If you look out of the window of a fast moving train, the nearby trees, houses etc. seem to move rapidly in a direction opposite to the train's motion, but the distant objects (hill tops, the Moon, the stars etc.) seem to be stationary. (In fact, since you are aware that you are moving, these distant objects seem to move with you).

Answer 1.16:

Line of sight is defined as an imaginary line joining an object and an observer's eye. When we observe nearby stationary objects such as trees, houses, etc. while sitting in a moving train, they appear to move rapidly in the opposite direction because the line of sight changes very rapidly.

On the other hand, distant objects such as trees, stars, etc. appear stationary because of the large distance. As a result, the line of sight does not change its direction rapidly.

Physics Principles And Problems Answers Chapter 11

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Table of Contents Physics Principles And Problems Answers Chapter 11

1. Understanding the eBook Physics Principles And Problems Answers Chapter 11
 - The Rise of Digital Reading Physics Principles And Problems Answers Chapter 11
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Principles And Problems Answers Chapter 11
 - 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 Physics Principles And Problems Answers Chapter 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Principles And Problems Answers Chapter 11
 - Personalized Recommendations
 - Physics Principles And Problems Answers Chapter 11 User Reviews and Ratings
 - Physics Principles And Problems Answers Chapter 11 and Bestseller Lists
5. Accessing Physics Principles And Problems Answers Chapter 11 Free and Paid eBooks
 - Physics Principles And Problems Answers Chapter 11 Public Domain eBooks
 - Physics Principles And Problems Answers Chapter 11 eBook Subscription Services
 - Physics Principles And Problems Answers Chapter 11 Budget-Friendly Options

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