

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, $r = 0.5 \text{ Å} = 0.5 \times 10^{-10} \text{ m}$

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 1 Most Pwaent12th

Jessica J Manson



Physics 1 Most Pwaent12th:

Unveiling the Magic of Words: A Review of "**Physics 1 Most Pwaent12th**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Physics 1 Most Pwaent12th**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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Table of Contents **Physics 1 Most Pwaent12th**

1. Understanding the eBook **Physics 1 Most Pwaent12th**
 - The Rise of Digital Reading **Physics 1 Most Pwaent12th**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Physics 1 Most Pwaent12th**
 - 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 1 Most Pwaent12th**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Physics 1 Most Pwaent12th**
 - Personalized Recommendations
 - **Physics 1 Most Pwaent12th** User Reviews and Ratings
 - **Physics 1 Most Pwaent12th** and Bestseller Lists

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 - Physics 1 Most Pwaent12th Public Domain eBooks
 - Physics 1 Most Pwaent12th eBook Subscription Services
 - Physics 1 Most Pwaent12th Budget-Friendly Options
6. Navigating Physics 1 Most Pwaent12th eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics 1 Most Pwaent12th Compatibility with Devices
 - Physics 1 Most Pwaent12th Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics 1 Most Pwaent12th
 - Highlighting and Note-Taking Physics 1 Most Pwaent12th
 - Interactive Elements Physics 1 Most Pwaent12th
8. Staying Engaged with Physics 1 Most Pwaent12th
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 1 Most Pwaent12th
9. Balancing eBooks and Physical Books Physics 1 Most Pwaent12th
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 1 Most Pwaent12th
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics 1 Most Pwaent12th
 - Setting Reading Goals Physics 1 Most Pwaent12th
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics 1 Most Pwaent12th
 - Fact-Checking eBook Content of Physics 1 Most Pwaent12th
 - 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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