

# Physics

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(Chapter 2) (Units and Measurement) (Exercises)

(Class 11)

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

Now, 1 mole of hydrogen contains  $6.023 \times 10^{23}$  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  $7.08 \times 10^4$  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 2.18:

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 2.18:

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.

## Question 2.19:

The principle of 'parallax' in section 2.3.1 is used in the determination of distances of very distant stars. The baseline AB is the line joining the Earth's two locations six months apart in its orbit around the Sun. That is, the baseline is about the diameter of the Earth's orbit  $\approx 3 \times 10^{11} \text{ m}$ . However, even the nearest stars are so distant that with such a long baseline, they show parallax only of the order of  $1''$  (second) of arc or so. A parsec is a convenient unit of length on the astronomical scale. It is the distance of an object that will show a parallax of  $1''$  (second of arc) from opposite ends of a baseline equal to the distance from the Earth to the Sun. How much is a parsec in terms of metres?

## Answer 2.19:

Diameter of Earth's orbit =  $3 \times 10^{11} \text{ m}$

Radius of Earth's orbit,  $r = 1.5 \times 10^{11} \text{ m}$

Let the distance parallax angle be  $1'' = 4.847 \times 10^{-6} \text{ rad}$ .

Let the distance of the star be  $D$ .

Parsec is defined as the distance at which the average radius of the Earth's orbit subtends an angle of  $1''$ .

$$\therefore \text{We have } \theta = \frac{r}{D}$$

$$D = \frac{r}{\theta} = \frac{1.5 \times 10^{11}}{4.847 \times 10^{-6}}$$

$$= 0.309 \times 10^{-6} \approx 3.09 \times 10^{16} \text{ m}$$

Hence, 1 parsec  $\approx 3.09 \times 10^{16} \text{ m}$ .

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