

8.1 For N_2 , $\sigma = \pi d^2 = 4.3 \times 10^{-28} \text{ m}^2$ (see Example 8.1). Then $n = p/k_B T$ with $p = 10^{-10} \times 10^2 \text{ Pa}$. With $\langle v \rangle = \sqrt{8k_B T/\pi m} = 475 \text{ m s}^{-1}$, we then have

- $\lambda = 1/\sqrt{2}n\sigma \approx 7 \times 10^5 \text{ m}$;
- $\tau = \lambda/\langle v \rangle \approx 25 \text{ minutes}$.

Since the chamber size is 0.5 m , then molecules will collide about 10^6 times more often with the chamber walls than with each other.

If p is raised by a factor of 10^4 , then λ and τ will go down by a factor of 10^4 .

8.2 $P(x) = e^{-x/\lambda}$ and so

- (a) $\langle x^2 \rangle = 2\lambda^2$ and $x_{\text{rms}} = \sqrt{2}\lambda$.
- (b) $dP/dx = 0$ leads to $x = \infty$ (the least probable length) and $x = 0$ (the most probable length).
- (c) (i) 36.8%, (ii) 13.5%, (iii) 0.67%.

8.3 The number hitting a plane is proportional to $vg(v) dv \cos \theta \sin \theta d\theta d\phi$. Hence

$$\langle x \cos \theta \rangle = \frac{\int_0^\infty x e^{-x/\lambda} \int v g(v) dv \int_0^{\pi/2} \cos^2 \theta \sin \theta d\theta}{\int_0^\infty e^{-x/\lambda} \int v g(v) dv \int_0^{\pi/2} \cos \theta \sin \theta d\theta} = \frac{2\lambda}{3}.$$

8.4 This question *should* have stated that $n = 500 \text{ cm}^{-3}$ so that $n = 5 \times 10^8 \text{ m}^{-3}$. In this case, and estimating $\sigma = \pi(2a_0)^2 \approx 3 \times 10^{-20} \text{ m}^2$, we have

- $\langle v \rangle = \sqrt{8k_B T/\pi m} \approx 10^3 \text{ m s}^{-1}$;
- $\lambda = 1/\sqrt{2}n\sigma \approx 7 \times 10^{10} \text{ m}$.

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