

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  $0.5 \text{ m}$ , 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  $\lambda$  and  $\tau$  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

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

8.5  $\lambda = 1/\sqrt{2}n\sigma \approx 10^5 \text{ m}$ .

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**Edward John Waring**



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