

(b) Energy to move a charge  $q$  from  $x_1$  to  $x_2$  is change in potential energy  $\Delta(q\phi) = q(\phi_2 - \phi_1)$ . Let  $\phi_1 = 0$  at  $x = \pm d$  and  $\phi_2 = (1/2\epsilon_0)nqd^2$  at  $x = 0$ . Then

$$\mathcal{E} = \frac{1}{2\epsilon_0}nq^2d^2$$

Let  $d = \lambda_D$ ; then

$$\mathcal{E} = \frac{1}{2\epsilon_0}nq^2 \frac{KT\epsilon_0}{nq^2} = \frac{1}{2}KT = E_{AV}$$

for a one-dimensional Maxwellian distribution. Hence, if  $d > \lambda_D$ ,  $\mathcal{E} > E_{AV}$ . If the velocities are distributed in three dimensions, we have  $E_{AV} = \frac{3}{2}KT$  and  $\mathcal{E} > \frac{2}{3}E_{AV}$ . The factor 3 is not important here. The point is that a thermal particle would not have enough energy to go very far in a plasma ( $d > \lambda_D$ ) if the charge of one species is not neutralized by another species.

1-7. (a)  $\lambda_D = 7400(2/10^{16})^{1/2} = 10^{-4}$  m,  $N_D = 4.8 \times 10^4$ .

(b)  $\lambda_D = 7400(0.1/10^{17})^{1/2} = 2.3 \times 10^{-3}$  m,  $N_D = 5.4 \times 10^4$ .

(c)  $\lambda_D = 7400(800/10^{17})^{1/2} = 6.6 \times 10^{-3}$  m,  $N_D = 1.2 \times 10^5$ .

2-1.  $E = \frac{1}{2}mv_{\perp}^2 \therefore v_{\perp} = (2E/m)^{1/2}$ ,  $r_L = mv_{\perp}/eB$ .

(a)

$$v_{\perp} = \left[ \frac{(2)(10^3)(1.6 \times 10^{-19})}{9.11 \times 10^{-31}} \right]^{1/2} = 5.93 \times 10^7 \text{ m/sec}$$

$$r_L = \frac{(9.11 \times 10^{-31})(5.93 \times 10^7)}{(1.6 \times 10^{-19})(0.5 \times 10^{-4})} = 6.75 \text{ m}$$

(b)

$$v_{\perp} = (300)(1000) = 3 \times 10^5 \text{ m/sec}$$

$$r_L = \frac{(1.67 \times 10^{-27})(3 \times 10^5)}{(1.6 \times 10^{-19})(5 \times 10^{-5})} = 6.26 \times 10^3 \text{ m} = 6.26 \text{ km}$$

(c)

$$v_{\perp} = \left[ \frac{(2)(10^3)(1.6 \times 10^{-19})}{(4)(1.67 \times 10^{-27})} \right]^{1/2} = 2.19 \times 10^5 \text{ m/sec}$$

$$r_L = \frac{(4)(1.67 \times 10^{-27})(2.19 \times 10^5)}{(1.6 \times 10^{-19})(5.00 \times 10^{-5})} = 0.183 \text{ m}$$

(d)

$$r_L = \frac{2ME}{qB} = \frac{[(2)(4)(1.67 \times 10^{-27})(3.5 \times 10^5)(1.6 \times 10^{-19})]^{1/2}}{(2)(1.6 \times 10^{-19})(8)} \\ = 5.58 \times 10^{-3} \text{ m}$$

# Plasma Chen Solution Manual

**M Tight**



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