

## Solutions to Chen's Plasma Physics

Kalman Knizhnik

1-1. Compute the density (in units of  $m^{-3}$ ) of an ideal gas under the following conditions:

a) At 0°C and 760 Torr pressure (1 Torr = 1mm Hg). This is called the Loschmidt number.

b) In a vacuum at  $10^{-3}$  Torr at room temperature (20°C). This number is a useful one for the experimentalist to know by heart ( $10^{-3}$  Torr = 1 micron).

a) Avogadro's number is  $N_A = 6.022 \times 10^{23}$ . One mole of gas at STP occupies 22.4 liters. 1 liter is  $1 \times 10^{-3}$  cubic meters. Thus, the number per cubic meter is  $N_A/m = 6.022 \times 10^{23}/(22.4 \times 10^{-3}) = 2.66 \times 10^{25} m^{-3}$ . Thus, the Loschmidt number is  $2.66 \times 10^{25}$ .  $\square$

b) Using  $PV = NkT$ , we obtain (with  $R = 1.4 \times 10^{-23} J K^{-1}$  and 1 Torr = 133 Pa):

$$n = \frac{N}{V} = \frac{P}{kT} = \frac{10^{-3} \times 133}{1.4 \times 10^{-23} \times (20 + 273)} = 3.3 \times 10^{19} m^{-3} \quad \square \quad (1)$$

1-2. Derive the constant  $A$  for a normalized one-dimensional Maxwellian distribution

$$f(u) = Ae^{-mu^2/2kT} \quad (2)$$

such that

$$\int_{-\infty}^{\infty} f(u)du = 1 \quad (3)$$

This one is straightforward. Just integrate:

$$1 = \int_{-\infty}^{\infty} Ae^{-mu^2/2kT} du = A \sqrt{\frac{2\pi kT}{m}} \quad \rightarrow \quad A = \sqrt{\frac{m}{2\pi kT}} \quad \square \quad (4)$$

1-4. Compute the pressure, in atmospheres and in  $\text{torr}/ft^2$ , exerted by a thermonuclear plasma on its container. Assume  $kT_e = kT_i = 20\text{keV}$ ,  $n = 10^{21} m^{-3}$  and  $p = nkT$ , where  $T = T_i + T_e$ .

This is just unit conversion, albeit with units that nobody really ever remembers. For reference,  $1\text{keV} = 1.6 \times 10^{-10} J$ , so

$$p = 10^{21} \times (20\text{keV} + 20\text{keV}) = 4 \times 10^{22} m^{-3} \text{keV} = 4 \times 10^3 m^{-3} J = 4 \times 10^3 N/m^2 \quad (5)$$

But  $1\text{atm} = 10^5 N/m^2 = 1\text{torr}/ft^2$ , so (Note: I think there is a mistake in Chen's solutions here. If I am mistaken, please let me know):

$$p = 0.04\text{ atm} = 0.04\text{ torr}/ft^2 \quad \square \quad (6)$$

1-5. In a strictly steady state situation, both the ions and the electrons will follow the Boltzmann relation

$$n_i = n_0 e^{-q_i \phi / kT_i} \quad (7)$$

For the case of an infinite, transparent grid charged to a potential  $\phi$ , show that the shielding distance is given approximately by

$$\lambda_D^{-2} = \frac{mc^2}{e_0} \left( \frac{1}{kT_e} + \frac{1}{kT_i} \right) \quad (8)$$

Show that  $\lambda_D$  is determined by the temperature of the colder species. We'll use Poisson's equation

$$\nabla^2 \phi = \frac{en_e - en_i}{e_0} = \frac{en_0}{e_0} (e^{e\phi/kT_e} - e^{-e\phi/kT_i}) \approx \frac{en_0}{e_0} \left( 1 + \frac{e\phi}{kT_e} - 1 - \frac{-e\phi}{kT_i} \right) = \frac{e^2 n}{e_0} \left( \frac{\phi}{kT_e} + \frac{\phi}{kT_i} \right) \quad (9)$$

# Solution Manual Of Plasma Physics

**Puja Mehta**

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web 4 is found at a constantly changing level on the crown 5 always separates the clinical crown and root 2 always separates the anatomical crown and root oblique ridges are dental structures which are normally found on the crowns of maxillary molars only on the crowns of teeth contact areas are located on 1

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