

## Solutions to Chen's Plasma Physics

Kalman Krizhnik

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

a) At  $0^\circ\text{C}$  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 ( $20^\circ\text{C}$ ). 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  $N_A/n = 6.022 \times 10^{23}/(22.4 \times 10^{-3}) = 2.66 \times 10^{25} m^{-3}$ . 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:

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

1-4. Compute the pressure, in atmospheres and in  $\text{tons}/ft^2$ , 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,  $1 \text{keV} = 1.6 \times 10^{-19} J$ , so

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

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

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

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

$$n_j = n_0 e^{-e\phi/kT_j} \quad (7)$$

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

$$\lambda_D^{-2} = \frac{ne^2}{\epsilon_0} \left( \frac{1}{kT_e} + \frac{1}{kT_i} \right) \quad (8)$$

Show that  $\lambda_D$  is determined by the temperature of the colder species.

We'll use Poisson's equation

$$\nabla^2 \phi = \frac{en_e - en_i}{\epsilon_0} = \frac{en_0}{\epsilon_0} (e^{e\phi/kT_e} - e^{-e\phi/kT_i}) \approx \frac{en_0}{\epsilon_0} \left( 1 + \frac{e\phi}{kT_e} - 1 - \frac{-e\phi}{kT_i} \right) = \frac{e^2 n_0}{\epsilon_0} \left( \frac{\phi}{kT_e} + \frac{\phi}{kT_i} \right) \quad (9)$$

# Chen Plasma Physics Solutions

**M Walker**



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**welcome speech for event for students and children** - Mar 08 2023

web read welcome speech for event in 3 minutes here it is my pleasure to present a welcome speech for the event of the annual sports day i believe that everyone present here is doing good and are super excited about today s sports day

*welcome speech 10 lines short and long speech schools* - Oct 15 2023

web mar 10 2023 10 give a brief overview of the schedule short speech on welcome speech a very warm morning to everyone who are present here and who are going to make this program a grand success it s my immense pleasure to

welcome speech in english best samples examples tips - Jan 06 2023

web in the case of a welcoming ceremony the welcome speech is considered to be one of the most important parts of the whole gathering in fact it is the most crucial aspect of the entire event this is because the welcome speech serves several purposes first it introduces the guests to the host

welcome speech for an event in english infinity learn - Apr 09 2023

web welcome speech for an event a welcome speech is a great way to set the tone for an event it sets the tone for the event and can make attendees feel more comfortable and welcome additionally a well crafted welcome speech can help to promote the event to those who may not be familiar with it

**welcome speech for award ceremony for students and a** - Dec 05 2022

web apr 4 2023 these speeches will be useful for the students of schools and colleges teachers and the hosts who deliver a welcome speech for award ceremony in their educational institutes a long welcome speech for award ceremony is helpful to students of classes 7 8 9 10 11 and 12