1.1 A gas at 20°C may be rarefied if it contains less than 10¹² molecules per mm³. If Avogadro's number is 6.023E23 molecules per mole, what air pressure does this represent?

Solution: The mass of one molecule of air may be computed as

$$m = \frac{\text{Molecular weight}}{\text{Avogadro's number}} = \frac{28.97 \text{ mol}^{-1}}{6.023 \text{E23 molecules/g·mol}} = 4.81 \text{E-23 g}$$

Then the density of air containing 1012 molecules per mm3 is, in SI units,

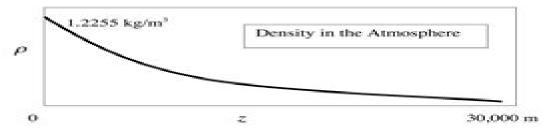
$$\rho = \left(10^{12} \frac{\text{molecules}}{\text{mm}^3}\right) \left(4.81\text{E}-23 \frac{\text{g}}{\text{molecule}}\right)$$
$$= 4.81\text{E}-11 \frac{\text{g}}{\text{mm}^3} = 4.81\text{E}-5 \frac{\text{kg}}{\text{m}^3}$$

Finally, from the perfect gas law, Eq. (1.13), at 20°C = 293 K, we obtain the pressure:

$$p = \rho RT = \left(4.81E-5 \frac{kg}{m^3}\right) \left(287 \frac{m^2}{s^2 \cdot K}\right) (293 \text{ K}) = 4.0 \text{ Pa}$$
 Ans.

P1.2 Table A.6 lists the density of the standard atmosphere as a function of altitude. Use these values to estimate, crudely, say, within a factor of 2, the number of molecules of air in the entire atmosphere of the earth.

Solution: Make a plot of density ρ versus altitude ε in the atmosphere, from Table A.6:



This writer's approximation: The curve is approximately an exponential, $\rho \sim \rho_o \exp(-b z)$, with b approximately equal to 0.00011 per meter. Integrate this over the entire atmosphere, with the radius of the earth equal to 6377 km:

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