

ASSIGNMENT

Physical Chemistry (CHB-604)

Molecular Statistics

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Submitted to- Dr. Biswajit Ray

1.1 INTRODUCTION: THERMODYNAMICS AND STATISTICAL MECHANICS OF THE PERFECT GAS

Ludwig Boltzmann, who spent much of his life studying statistical mechanics, died in 1906, by his own hand. Paul Ehrenfest, carrying on the work, died similarly in 1933. Now it is our turn to study statistical mechanics. Perhaps it will be wise to approach the subject cautiously. We will begin

Maxwell-Boltzmann distribution
For one-atomic ideal gas

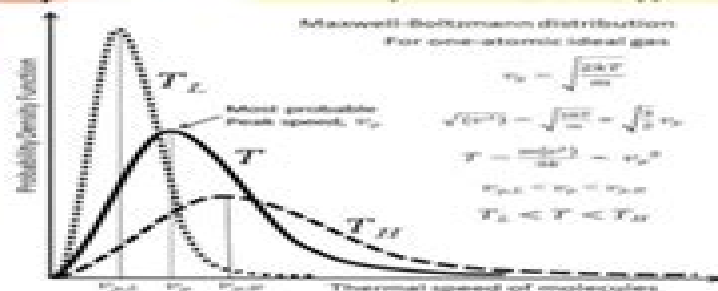
$$v_p = \sqrt{\frac{2kT}{m}}$$

$$\sqrt{\langle v^2 \rangle} = \sqrt{\frac{3kT}{m}} = \sqrt{\frac{3}{2}} v_p$$

$$T = \frac{m \langle v^2 \rangle}{2k} = v_p^2$$

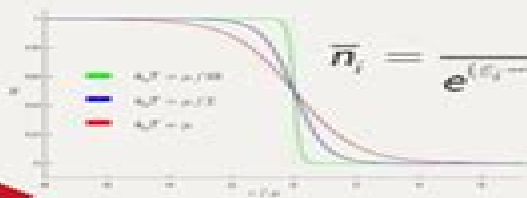
$$v_{p,L} = v_p = v_{p,H}$$

$$T_L < T < T_H$$



Fermi - Dirac distribution

$$\bar{n}_i = \frac{1}{e^{(\epsilon_i - \mu)/k_B T} + 1}$$



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M Tight



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