

DIRECT FORMULA FOR \bar{E} in H.O

$$\bar{E} = \frac{1}{2} kT \text{ for each term (K.E. \& P.E)}$$

c.g. In 3-D, 3 K.E. & 3 P.E. terms

$$\bar{E} = kT + kT + kT = 3kT$$

$$\boxed{\bar{E} = 3kT}$$

But if particles are non interacting

$$V=0$$

$$\Rightarrow \bar{E} = \frac{1}{2} kT + \frac{1}{2} kT + \frac{1}{2} kT$$

$$\Rightarrow \boxed{\bar{E} = \frac{3}{2} kT}$$

For H.O.

$$Z = \sum_{n=0}^{\infty} e^{-\beta (n + \frac{1}{2}) \hbar \omega}$$

$$Z = e^{-\hbar \omega \beta / 2} + e^{-3\hbar \omega \beta / 2} + \dots$$

or since

$$a = e^{-\hbar \omega \beta / 2}$$

$$r = e^{-\beta \hbar \omega}$$

$$\therefore Z = \frac{e^{-\beta \hbar \omega / 2}}{1 - e^{-\beta \hbar \omega}}$$

$$\text{For 3D H.O, } Z_N = \left(\frac{1}{1 - e^{-\beta \hbar \omega}} \right)^3 N$$

Average value of $n = \frac{1}{2}$ (Zero)

Partition fn for particles in magnetic field

$$Z = e^{-\beta \bar{E}} = e^{-\beta (\vec{\mu} \cdot \vec{H})} = e^{-\beta (\vec{\mu} \cdot \vec{B})}$$

$$\text{up} \rightarrow \mu B, \text{ down} \rightarrow -\mu B$$

$$Z = e^{-\mu \beta B} + e^{\mu \beta B}$$

EXAM 2012

EXAMPLE \rightarrow If $F = NKT \ln \left(\frac{a\omega V}{N} (KT)^{5/2} \right)$

Find U.

Soln. As $F = -NKT \ln Z$

$$\Rightarrow Z = \frac{a\omega V (KT)^{5/2}}{N}$$

$$U = -\frac{\partial}{\partial \beta} (\ln Z) = -\frac{\partial}{\partial \beta} \left(\ln \left(\frac{a\omega V}{N} \left(\frac{1}{\beta} \right)^{5/2} \right) \right)$$

$$= \frac{5N}{2\beta} = \frac{5}{2} NKT$$

$$\boxed{U = \frac{5}{2} NKT}$$

Ensemble \rightarrow system of collection of similar systems having some const parameters

Microcanonical

Walls are rigid
impermeable
well insulated

N, V, E
N, V, E
N, V, E
N, V, E

Microcanonical

Canonical

Walls are rigid
conducting
impermeable

N, T
V, N, T
V, N, T
V, N, T

Canonical

Grand canonical

Walls are impermeable
rigid
conducting

μ, V, T
μ, V, T
μ, V, T
μ, V, T

Grand canonical

These quantities remain same in a particle ensemble i.e. in microcanonical, canonical & Grand canonical resp. $\frac{1}{N} \leftarrow \text{Energy fluctuation} \rightarrow \frac{1}{N}$

Maxwell Boltzmann distⁿ law of velocities

No. of particles in velocity range v to $v+dv$ is

$$n(v_x) dv_x = N \left(\frac{m}{2\pi kT} \right)^{1/2} e^{-\frac{mv_x^2}{2kT}} dv_x$$

$$P = \frac{n}{N} = \left(\frac{m}{2\pi kT} \right)^{1/2} e^{-\frac{mv_x^2}{2kT}}$$

$$P_{\text{max}} = \left(\frac{m}{2\pi kT} \right)^{1/2} \quad (P \propto T^{-1/2})$$

$$\bar{v}_x = \int_{-\infty}^{\infty} v_x P dv_x = 0$$

$$\boxed{\bar{v}_x = \bar{v}_y = \bar{v}_z = 0}$$

Uy

$$\boxed{\langle v_x v_y \rangle = \langle v_y v_z \rangle = \langle v_z v_x \rangle = 0}$$

In 1-D

$$\langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = kT/m$$

In 2-D

$$\langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = 2kT/m$$

In 3-D

$$\langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = 3kT/m$$

Statistical Physics

A. I. Akhiezer, S. V. Peletminskii



Statistical Physics:

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Statistical Physics Claudine Hermann, 2006-01-26 Statistical Physics bridges the properties of a macroscopic system and the microscopic behavior of its constituting particles otherwise impossible due to the giant magnitude of Avogadro's number Numerous

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The text concludes with explorations of statistical equivalence radiative and material phase transitions and the kinetic foundations of Gauss's error law Bibliographic notes complete each chapter

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Equilibrium Statistical Physics Michael Plischke, Birger Bergersen, 1994 This textbook concentrates on modern topics in statistical physics with an emphasis on strongly interacting condensed matter systems The book is self contained and is suitable for beginning graduate students in physics and materials science or undergraduates who have taken an introductory course in statistical mechanics Phase transitions and critical phenomena are discussed in detail including mean field and Landau theories and the renormalization group approach The theories are applied to a number of interesting systems such as magnets liquid crystals polymers membranes interacting Bose and Fermi fluids disordered systems percolation and spin of equilibrium concepts are also discussed Computer simulations of condensed matter systems by Monte Carlo based and molecular dynamics methods are treated

Elementary Statistical Physics Charles Kittel, 2004-03-01 Geared toward graduate students in physics this text covers such important topics as the properties of the Fermi Dirac and Bose Einstein distributions the interrelated subjects of fluctuations thermal noise and Brownian movement and the thermodynamics of irreversible processes Most sections include illustrative problems 1958 edition

Statistical Physics: Fundamentals And Application To Condensed Matter Hung-the Diep, 2015-06-29 The aim of this book is to provide the fundamentals of statistical physics and its application to condensed matter The combination of statistical mechanics and quantum mechanics has provided an understanding of properties of matter leading to spectacular technological innovations and discoveries in condensed matter which have radically changed our daily life The book gives the steps to follow to understand fundamental theories and to apply these to real materials

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