

*** 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

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

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

For H.O.

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

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

$$a = e^{-\hbar \omega \beta / 2} \quad \text{if series}$$

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

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

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

Partition fn for particles in magnetic field

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

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

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

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

L D Landau, E.M. Lifshitz



Statistical Physics:

Basics Of Statistical Physics: A Bachelor Degree Introduction Harald J W Muller-kirsten, 2009-08-21 Statistics links microscopic and macroscopic phenomena and requires for this reason a large number of microscopic elements like atoms. The results are values of maximum probability or of averaging. This introduction to statistical physics concentrates on the basic principles and attempts to explain these in simple terms supplemented by numerous examples. The basic principles concentrated on are the difference between classical and quantum statistics, the a priori probabilities as related to degeneracies, the vital aspect of indistinguishability as compared with distinguishability in classical physics, the differences between conserved and nonconserved elements, the latter including photons and phonons, the different ways of counting arrangements in the three statistics: Maxwell Boltzmann, Fermi Dirac, Bose Einstein, the difference between maximization of the number of arrangements of elements in these and averaging in the Darwin Fowler method. Significant applications to solids, radiation and to electrons in metals are treated in separate chapters. Finally the Bose Einstein distribution is rederived under condensation conditions. Each chapter concludes with examples and exercises. *Statistical Physics* Franz Mandl, 1991-01-08 The Manchester Physics Series. General Editors: D J Sandiford, F Mandl, A C Phillips. Department of Physics and Astronomy, University of Manchester. Properties of Matter: B H Flowers and E Mendoza. Optics: Second Edition, F G Smith and J H Thomson. Statistical Physics: Second Edition, E Mandl. Electromagnetism: Second Edition, I S Grant and W R Phillips. Statistics: R J Barlow. Solid State Physics: Second Edition, J R Hook and H E Hall. Quantum Mechanics: F Mandl. Particle Physics: Second Edition, B R Martin and G Shaw. The Physics of Stars: Second Edition, A C Phillips. Computing for Scientists: R J Barlow and A R Barnett. Statistical Physics: Second Edition, develops a unified treatment of statistical mechanics and thermodynamics which emphasises the statistical nature of the laws of thermodynamics and the atomic nature of matter. Prominence is given to the Gibbs distribution leading to a simple treatment of quantum statistics and of chemical reactions. Undergraduate students of physics and related sciences will find this a stimulating account of the basic physics and its applications. Only an elementary knowledge of kinetic theory and atomic physics as well as the rudiments of quantum theory are presupposed for an understanding of this book. Statistical Physics: Second Edition features a fully integrated treatment of thermodynamics and statistical mechanics. A flow diagram allowing topics to be studied in different orders or omitted altogether. Optional starred and highlighted sections containing more advanced and specialised material for the more ambitious reader. Sets of problems at the end of each chapter to help student understanding. Hints for solving the problems are given in an Appendix.

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systems of today's key technologies such as semiconductors or lasers are macroscopic quantum objects only statistical physics allows for understanding their fundamentals Therefore this graduate text also focuses on particular applications such as the properties of electrons in solids with applications and radiation thermodynamics and the greenhouse effect

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by Professor Kardar at MIT this textbook introduces the central concepts and tools of statistical physics It contains a chapter on probability and related issues such as the central limit theorem and information theory and covers interacting particles with an extensive description of the van der Waals equation and its derivation by mean field approximation It also contains an integrated set of problems with solutions to selected problems at the end of the book and a complete set of solutions is available to lecturers on a password protected website at www.cambridge.org/9780521873420 A companion volume

Statistical Physics of Fields discusses non mean field aspects of scaling and critical phenomena through the perspective of renormalization group
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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

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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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