

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.

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

$$Z = e^{-h\nu\beta/2} + e^{-3h\nu\beta/2} + \dots$$

GP series

$$a = e^{-h\nu\beta/2}$$

$$r = e^{-\beta h\nu}$$

$$\therefore Z = \frac{e^{-\beta h\nu/2}}{1 - e^{-\beta h\nu}}$$

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

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. $\frac{1}{N} \leftarrow$ 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

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

$$\text{In 1-D } \langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = kT/m$$

$$\text{In 2-D } \langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = 2kT/m$$

$$\text{In 3-D } \langle v_x^2 \rangle = \langle v_y^2 \rangle = \langle v_z^2 \rangle = 3kT/m$$

Statistical Physics

Mehran Kardar



Statistical Physics:

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

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 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 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 **Statistical Physics** L D Landau,E.M. Lifshitz,2013-10-22 A lucid presentation of statistical physics and thermodynamics which develops from the general principles to give a large number of applications of the theory

Statistical Physics A. Isihara,2013-09-11 Statistical Physics provides an introduction to the basic principles of statistical mechanics Statistical mechanics is one of the fundamental branches of theoretical physics and chemistry and deals with many systems such as gases liquids solids and even molecules which have many atoms The book consists of three parts Part I gives the principles with elementary applications to noninteracting systems It begins with kinetic theory and discusses classical and quantum systems in equilibrium and nonequilibrium In Part II classical statistical mechanics is developed for interacting systems in equilibrium and nonequilibrium Finally in Part III quantum statistics is presented to an extent which enables the reader to proceed to advanced many body theories This book is written for a one year graduate course in statistical mechanics or a half year course followed by a half year course on related subjects such as special topics and applications or elementary many body theories Efforts are made such that discussions of each subject start with an elementary level and end at an advanced level *Statistical Physics* Leo P. Kadanoff,2000 The material presented in this invaluable textbook has been tested in two courses One of these is a graduate level survey of statistical physics the other a rather personal perspective on critical behavior Thus this book defines a progression starting at the book learning part of graduate education and ending in the midst of topics at the research level To supplement the research level side the book includes some research papers Several of these are classics in the field including a suite of six works on self organized criticality and complexity a pair on diffusion limited aggregation some papers on correlations near critical points a few of the basic sources on the development of the real space renormalization group and several papers on magnetic behavior in a plain geometry In addition the author has included a few of his own papers *Statistical Physics* A.M. Guenault,1995-02-28 In this revised and enlarged second edition Tony Gu nault provides a clear and refreshingly readable introduction to statistical physics The treatment itself is self contained and concentrates on an understanding of the physical ideas without requiring a high level of mathematical sophistication The book adopts a straightforward quantum approach to statistical averaging from the outset The initial part of the book is geared towards explaining the equilibrium properties of a simple isolated assembly of particles The treatment of gases gives full coverage to Maxwell Boltzmann Fermi Dirac and Bose Einstein statistics

Statistical Physics of Particles Mehran Kardar,2007-06-07 Statistical physics has its origins in attempts to describe the thermal properties of matter in terms of its constituent particles and has played a fundamental role in the development of quantum mechanics Based on lectures taught 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 **Statistical Physics** Gregory H. Wannier, 1987-01-01 Classic text combines thermodynamics statistical mechanics and kinetic theory in one unified presentation Topics include equilibrium statistics of special systems kinetic theory transport coefficients and fluctuations Problems with solutions 1966 edition **Statistical Physics** Daijiro Yoshioka, 2007-05-30 A macroscopic system consists of a tremendous number of microscopic atoms and molecules In thermal equilibrium the state of such a system is uniquely defined despite the fact that the microscopic particles behave quite randomly This observation gives rise to the fundamental law of the statistical physics it allows entropy to be defined and a framework for the theory to be constructed The first part of this book explains the essence of statistical physics without going into details such as Liouville's theorem or ergodic theorem which are difficult for beginners and unnecessary for actual application of the statistical mechanics In the second part statistical mechanics is applied to various systems which look different but have the same mathematical structure In this way readers can deepen their understanding of statistical physics **Statistical Physics** Tony Guenault, 2013-03-09 Statistical physics is not a difficult subject and I trust that this will not be found a difficult book It contains much that a number of generations of Lancaster students have studied with me as part of their physics honours degree work The lecture course was of twenty hours duration and I have added comparatively little to the lecture syllabus A pre requisite is that the reader should have a working knowledge of basic thermal physics i.e. the laws of thermodynamics and their application to simple substances The book Thermal Physics by Colin Finn in this series forms an ideal introduction Statistical physics has a thousand and one different ways of approaching the same basic results I have chosen a rather down to earth and unsophisticated approach without I hope totally obscuring the considerable interest of the fundamentals This enables applications to be introduced at an early stage in the book As a low temperature physicist I have always found a particular interest in statistical physics and especially in how the absolute zero is approached I should not therefore apologize for the low temperature bias in the topics which I have selected from the many possibilities **Statistical Physics** Bernard H. Lavenda, 2016-10-20 Suitable for graduate students in chemical physics statistical physics and physical chemistry this text develops an innovative probabilistic approach to statistical mechanics The treatment employs Gauss's principle and incorporates Bose Einstein and Fermi Dirac statistics to provide a powerful tool for the statistical analysis of physical phenomena The treatment begins with an introductory chapter on entropy and probability that covers Boltzmann's principle and thermodynamic probability among other topics Succeeding chapters offer a case history of black radiation examine quantum and classical statistics and discuss methods of processing information and the origins of the canonical distribution

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

Statistical Physics I Morikazu Toda, Ryogo Kubo, Nobuhiko Saito, 2012-12-06 Statistical Physics I discusses the fundamentals of equilibrium statistical mechanics focussing on basic physical aspects No previous knowledge of thermodynamics or the molecular theory of gases is assumed Illustrative examples based on simple materials and photon systems elucidate the central ideas and methods

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

Methods of Statistical Physics A. I. Akhiezer, S. V. Peletminskii, 2013-10-22 Methods of Statistical Physics is an exposition of the tools of statistical mechanics which evaluates the kinetic equations of classical and quantized systems The book also analyzes the equations of macroscopic physics such as the equations of hydrodynamics for normal and superfluid liquids and macroscopic electrodynamics The text gives particular attention to the study of quantum systems This study begins with a discussion of problems of quantum statistics with a detailed description of the basics of quantum mechanics along with the theory of measurement An analysis of the asymptotic behavior of universal quantities is also explained Strong consideration is given to the systems with spontaneously broken system Theories such as the kinetic theory of gases the theory of Brownian motion the theory of the slowing down of neutrons and the theory of transport phenomena in crystals are discussed The book will be a useful tool for physicists mathematicians students and researchers in the field of statistical mechanics

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

Statistical Physics of Fields Mehran Kardar, 2007-06-07 Textbook on statistical field theories for advanced graduate courses in statistical physics

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 **Introduction to Statistical Physics** Silvio Salinas, 2001-02-08 This textbook covers the basic principles of statistical physics and thermodynamics The text is pitched at the level equivalent to first year graduate studies or advanced undergraduate studies It presents the subject in a straightforward and lively manner After reviewing the basic probability theory of classical thermodynamics the author addresses the standard topics of statistical physics The text demonstrates their relevance in other scientific fields using clear and explicit examples Later chapters introduce phase transitions critical phenomena and non equilibrium phenomena

Statistical Physics II Ryogo Kubo, Morikazu Toda, Natsuki Hashitsume, 2012-12-06 Statistical Physics II introduces nonequilibrium theories of statistical mechanics from the viewpoint of the fluctuation dissipation theorem Emphasis is placed on the relaxation from nonequilibrium to equilibrium states the response of a system to an external disturbance and general problems involved in deriving a macroscopic physical process from more basic underlying processes Fundamental concepts and methods are stressed rather than the numerous individual applications

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