

Statistical mechanics

February 16, 2016

1 Introduction and the first law

The subjects of statistical mechanics and thermodynamics are large everyday objects, containing billions of individual constituents. Examples include say 1 liter of a certain gas or liquid, or electrons in a metallic wire, or lattice vibrations of a crystal, or photons coming from an incandescent light bulb. For such objects, you cannot possibly follow the motion of individual particles, nor would you be interested to do so, even if you could. So instead you presume that the particles are moving somewhat at random, and use the laws of probability to figure out the average properties of the assembly of particles.

The description of the properties of microscopic bodies based on the statistical properties of the constituent particles is known as statistical physics. It is interesting that statistical physics represents a relatively late approach to the subject, the one which was first practiced in earnest in the late 19th century. The development of this subject is associated with Maxwell, Boltzmann, and Gibbs. A great deal was discovered about the thermal properties of microscopic bodies in the early 19th century, when even the existence of atoms was not universally accepted. The development of this so called thermodynamics is associated with many names, including Carnot (Carnot cycle), Joule (Joule heating, unit of energy), and Clausius (entropy).

Due to its dual nature, the subject is notoriously difficult to teach. In teaching my graduate Stat Mech class I am borrowing material from more than 10 books. In this class, I will rely primarily on Schroeder's text. The standard old text is Reif, which is great, but it is definitely too long for 1 semester. I recommend you to familiarize yourself with this text. More books are listed on my webpage.

1.1 Temperature

Let us start by slowly introducing the temperature, which is the quantity that is equal between two bodies in a thermal equilibrium. What is the thermal equilibrium? It is the

Statistical Mechanics An Introduction

Kim Sharp



Statistical Mechanics An Introduction:

Statistical Mechanics D H Trevena,2001-11-01 Thirty years teaching experience have been condensed into this concise introductory book on Statistical Mechanics Ideal for second and third year undergraduates in physics applied mathematics physical chemistry chemical engineering metallurgy materials science and polymer science Provides a concise introduction to statistical mechanics Ideal for second and third year undergraduates in physics applied mathematics physical chemistry chemical engineering metallurgy materials science and polymer science **Statistical Mechanics** Evelyn Guha,2008

Starting with a statistical view of the physical world this book discusses the basic concepts of macrostates and microstates of a system with much care using many examples to illustrate abstract ideas An Introduction to Statistical Mechanics and Thermodynamics Robert H. Swendsen,2012-03-01 This text presents the two complementary aspects of thermal physics as an integrated theory of the properties of matter Conceptual understanding is promoted by thorough development of basic concepts In contrast to many texts statistical mechanics including discussion of the required probability theory is presented first This provides a statistical foundation for the concept of entropy which is central to thermal physics A unique feature of the book is the development of entropy based on Boltzmann's 1877 definition this avoids contradictions or ad hoc corrections found in other texts Detailed fundamentals provide a natural grounding for advanced topics such as black body radiation and quantum gases An extensive set of problems solutions are available for lecturers through the OUP website many including explicit computations advance the core content by probing essential concepts The text is designed for a two semester undergraduate course but can be adapted for one semester courses emphasizing either aspect of thermal physics It is also suitable for graduate study *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 Introduction to Statistical Mechanics James Rice,1930

An Introduction to Statistical Mechanics Philippe Dennery,1972 **Introduction to Statistical Physics** João Paulo Casquilho,Paulo Ivo Cortez Teixeira,2014-12-18 Rigorous and comprehensive this textbook introduces undergraduate students to simulation methods in statistical physics The book covers a number of topics including the thermodynamics of magnetic and electric systems the quantum mechanical basis of magnetism ferrimagnetism antiferromagnetism spin waves and magnons liquid crystals as a non ideal system of technological relevance and diffusion in an external potential It also

covers hot topics such as cosmic microwave background magnetic cooling and Bose Einstein condensation The book provides an elementary introduction to simulation methods through algorithms in pseudocode for random walks the 2D Ising model and a model liquid crystal Any formalism is kept simple and derivations are worked out in detail to ensure the material is accessible to students from subjects other than physics *Statistical Mechanics* B. Widom,2002-04-18 This book is an introduction to statistical mechanics intended for advanced undergraduate or beginning graduate students Introduction to Quantum Statistical Mechanics N. N. Bogolubov, Jr.,2010 Introduction to Quantum Statistical Mechanics 2nd Edition may be used as an advanced textbook by graduate students even ambitious undergraduates in physics It is also suitable for non experts in physics who wish to have an overview of some of the classic and fundamental quantum models in the subject The explanation in the book is detailed enough to capture the interest of the reader and complete enough to provide the necessary background material needed to dwell further into the subject and explore the research literature *Introductory Statistical Mechanics for Physicists* D. K. C. MacDonald,2006-01-01 This concise introduction is geared toward those concerned with solid state or low temperature physics It presents the principles with simplicity and clarity reviewing issues of critical interest 1963 edition *An Introduction to Statistical Physics for Students* Anthony John Pointon,1967

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 Introduction to Statistical Mechanics S. K. Sinha,2005 *Thermodynamics and Statistical Mechanics* Samya Zain,Joshua F. Whitney,2021 This course text provides an accessible introduction to thermodynamics and statistical mechanics at a level that is suitable for both physics and engineering majors Concepts are approached in a pedagogical way using precise language clear explanations and discussions of how the ideas developed over time All of the material required for a one semester 14 week course in thermodynamics and statistical mechanics is provided alongside worked examples concept questions worksheets and independent study exercises The material has been thoroughly class tested and acts as a core text for undergraduate courses particularly for students who find the topics challenging It also acts as valuable supplementary reading for postgraduates who would benefit from the supplementary material and clear explanations of the concepts *Introduction to Statistical Physics* Kerson Huang,2009-09-21 Written by a world renowned theoretical physicist Introduction to Statistical Physics Second Edition clarifies the properties of matter collectively in terms of the physical laws governing atomic motion This second edition expands upon the original to include many additional exercises and more pedagogically oriented discussions that fully explain **Thermodynamics and Statistical Mechani**

ZAIN,2021-06-29 This course text provides an accessible introduction to thermodynamics and statistical mechanics at a level that is suitable for both physics and engineering majors Concepts are approached in a pedagogical way using precise language clear explanations and discussions of how the ideas developed over time All of the material required for a one semester 14 week course in thermodynamics and statistical mechanics is provided alongside worked examples concept questions worksheets and independent study exercises The material has been thoroughly class tested and acts as a core text for undergraduate courses particularly for students who find the topics challenging It also acts as valuable supplementary reading for postgraduates who would benefit from the supplementary material and clear explanations of the concepts Key features Provides an accessible introduction to thermodynamics and statistical mechanics Suitable for mixed classes of physics and engineering majors Acts as a core text for undergraduate courses particularly for students who find the topics challenging Introduces concepts with stories by key physicists providing a historical perspective on how the concepts were developed Includes worked examples concept questions worksheets and independent study exercises

Entropy and the Tao of Counting Kim Sharp,2020-01-25 This book provides a complete and accurate atomic level statistical mechanical explanation of entropy and the second law of thermodynamics It assumes only a basic knowledge of mechanics and requires no knowledge of calculus The treatment uses primarily geometric arguments and college level algebra Quantitative examples are given at each stage to buttress physical understanding This text is of benefit to undergraduate and graduate students as well as educators and researchers in the physical sciences whether or not they have taken a thermodynamics course who want to understand or teach the atomic molecular origins of entropy and the second law It is particularly aimed at those who due to insufficient mathematical background or because of their area of study are not going to take a traditional statistical mechanics course

An Introduction to Thermodynamics and Statistical Mechanics Keith S. Stowe,2007 Completely rewritten introductory textbook for standard undergraduate courses in thermodynamics includes problems and solutions

An Introduction to Statistical Thermodynamics Terrell L. Hill,2012-06-08 Four part treatment covers principles of quantum statistical mechanics systems composed of independent molecules or other independent subsystems and systems of interacting molecules concluding with a consideration of quantum statistics

Introduction to Mathematical Statistical Physics Robert Adol'fovich Minlos,2000 This book presents a mathematically rigorous approach to the main ideas and phenomena of statistical physics The introduction addresses the physical motivation focusing on the basic concept of modern statistical physics that is the notion of Gibbsian random fields Properties of Gibbsian fields are analysed in two ranges of physical parameters regular corresponding to high temperature and low density regimes where no phase transition is exhibited and singular low temperature regimes where such transitions occur Next a detailed approach to the analysis of the phenomena of phase transitions of the first kind the Pirogov Sinai theory is presented The author discusses this theory in a general way and illustrates it with the example of a lattice gas with three types of particles The conclusion gives a brief

review of recent developments arising from this theory The volume is written for the beginner yet advanced students will benefit from it as well The book will serve nicely as a supplementary textbook for course study The prerequisites are an elementary knowledge of mechanics probability theory and functional analysis

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