

# 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

**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 s 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 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

**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** Bipin Kumar Agarwal,2007 This Book Gives A Clear And Logical Exposition Of The Basic Method Of Ensembles In Statistical Mechanics As Developed By J W Gibbs Beginning With The Liouville Theorem A Brief But

Useful Introduction To The Classical Statistical Mechanics Is Provided Then The Quantum Picture Is Outlined And Basic Postulate Of Quantum Statistical Mechanics Are Stated The Discussion Of The Symmetry Of Wave Function And Its Effect On Counting Is Given In Detail The Relation Between Statistical Mechanics And Thermodynamics Is Worked Out And The Gibbs Paradox Is Discussed In A Lucid Way The Concept Of Entropy Is Related To The Information Theory Various Ensembles Are Constructed And Used To Derive The Bose Einstein And Fermi Dirac Ideal Gases Topics Like Liquid He Electrons In Metals And White Dwarfs Are Given Adequate Coverage Quantum Hall Effect Random Walk And Fourier Analysis Of A Random Fluctuation Are Devoted Sufficient Space To Make It A Useful And Fascinating Book The Book Concludes With A Discussion Of The Sling Model And A Modern Treatment Of The Critical Phenomena Problems At The End Of Each Chapter Widen The Area Covered And Also Help To Deepen The Understanding Of The Material Given This Book Is Written To Introduce The Subject To Advanced Undergraduates In Physics And Chemistry Or To Graduates In Engineering Classes The Present Edition Contains New Material Including A Chapter On Irreversible Thermodynamics And Sections Dealing With Density Matrix And Superconductivity

**An Introduction to Statistical Mechanics** Philippe Dennery,1972

**An Introduction to**

**Statistical Mechanics and Thermodynamics** Robert H. Swendsen,2012-03 This text presents statistical mechanics and thermodynamics as a theoretically integrated field of study It stresses deep coverage of fundamentals providing a natural foundation for advanced topics The large problem sets with solutions for teachers include many computational problems to advance student understanding

**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** John Dirk Walecka,2011-08-12 The science of statistical mechanics is concerned with defining the thermodynamic properties of a

macroscopic sample in terms of the properties of the microscopic systems of which it is composed The aim of this book is to provide a clear logical and self contained treatment of equilibrium statistical mechanics starting from Boltzmann s two statistical assumptions and to present a wide variety of applications to diverse physical assemblies The coverage is enhanced and extended through an extensive set of accessible problems An appendix provides an introduction to non equilibrium statistical mechanics through the Boltzmann equation and its extensions The book assumes introductory courses in classical and quantum mechanics as well as familiarity with multi variable calculus and the essentials of complex analysis Some knowledge of thermodynamics is assumed although the book starts with an appropriate review of that topic The targeted audience is first year graduate students and advanced undergraduates in physics chemistry and the related physical sciences

The goal of this text is to help the reader obtain a clear working knowledge of the very useful and powerful methods of equilibrium statistical mechanics and to enhance the understanding and appreciation of the more advanced texts **An Introduction to Statistical Physics for Students** Anthony John Pointon,1967 **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 **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 Statistical Mechanics S. K. Sinha,2005 Discusses the basic law of statistical physics and their applications to a range of interesting problems In this title the basic principles of equilibrium statistical mechanics are clearly formulated and applied to specific examples of ideal gases and interacting systems to bring out their strength and scope **An**

**Introduction to Statistical Thermodynamics** Terrell L. Hill,1986-01-01 A large number of exercises of a broad range of difficulty make this book even more useful a good addition to the literature on thermodynamics at the undergraduate level Philosophical Magazine Although written on an introductory level this wide ranging text provides extensive coverage of topics of current interest in equilibrium statistical mechanics Indeed certain traditional topics are given somewhat condensed treatment to allow room for a survey of more recent advances The book is divided into four major sections Part I deals with the principles of quantum statistical mechanics and includes discussions of energy levels states and eigenfunctions degeneracy and other topics Part II examines systems composed of independent molecules or of other independent subsystems Topics range from ideal monatomic gas and monatomic crystals to polyatomic gas and configuration of polymer molecules and rubber elasticity An examination of systems of interacting molecules comprises the nine chapters in Part III reviewing such subjects as lattice statistics imperfect gases and dilute liquid solutions Part IV covers quantum statistics and includes sections on Fermi Dirac and Bose Einstein statistics photon gas and free volume theories of quantum liquids Each chapter includes problems varying in difficulty ranging from simple numerical exercises to small scale research propositions In addition supplementary reading lists for each chapter invite students to pursue the subject at a more advanced level Readers are assumed to have studied thermodynamics calculus elementary differential equations and elementary quantum mechanics Because of the flexibility of the chapter arrangements this book especially lends itself to use in a one or two semester graduate course in chemistry a one semester senior or graduate course in physics or an introductory course in statistical mechanics

**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 [An Introduction to](#)

[Thermodynamics and Statistical Physics](#) Piero Olla,2014-08-31 **An Introduction to Thermodynamics and Statistical**

**Mechanics** Ajay K. Saxena,2010 An Introduction to Thermodynamics and Statistical Mechanics aims to serve as a text book for undergraduate hons and postgraduate students of physics The book covers First Law of Thermodynamics Entropy and Second Law of Thermodynamics Thermodynamic Relations The Statistical Basis of Thermodynamics Microcanonical Ensemble Classical Statistical and Canonical Distribution Grand Canonical Ensemble Quantum Statistical Mechanics Phase Transitions Fluctuations Irreversible Processes and Transport Phenomena Diffusion [An Introduction to Thermodynamics and Statistical Mechanics](#)

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**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

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