# Statistical **An Introductory Course** Daniel J. Amit Yosef Verbin World Scientific

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# **Statistical Physics An Introductory Course**

**Daniel J. Amit, Yosef Verbin** 

#### **Statistical Physics An Introductory Course:**

Statistical Physics Daniel J. Amit, Yosef Verbin, 1999 This invaluable textbook is an introduction to statistical physics that has been written primarily for self study It provides a comprehensive approach to the main ideas of statistical physics at the level of an introductory course starting from the kinetic theory of gases and proceeding all the way to Bose Einstein and Fermi Dirac statistics Each idea is brought out with ample motivation and clear step by step deductive exposition The key points and methods are presented and discussed on the basis of concrete representative systems such as the paramagnet Einstein's solid the diatomic gas black body radiation electric conductivity in metals and superfluidity. The book is written in a stimulating style and is accompanied by a large number of exercises appropriately placed within the text and by self assessment problems at the end of each chapter Detailed solutions of all the exercises are provided Daniel J. Amit, Yosef Verbin, 1999 Statistical Physics: An Introductory Course Daniel J Amit, Open University Of Israel The, Yosef Verbin, 1999-12-02 This invaluable textbook is an introduction to statistical physics that has been written primarily for self study It provides a comprehensive approach to the main ideas of statistical physics at the level of an introductory course starting from the kinetic theory of gases and proceeding all the way to Bose Einstein and Fermi Dirac statistics Each idea is brought out with ample motivation and clear step by step deductive exposition. The key points and methods are presented and discussed on the basis of concrete representative systems such as the paramagnet Einstein's solid the diatomic gas black body radiation electric conductivity in metals and superfluidity The book is written in a stimulating style and is accompanied by a large number of exercises appropriately placed within the text and by self assessment problems at the end of each chapter Detailed solutions of all the exercises are provided **An Introductory Course of Statistical Mechanics** Palash B. Pal, 2008 An Introductory Course of Statistical Mechanics introduces the subject to readers without any prior knowledge of the subject In most textbooks Statistical Mechanics appears to be a branch of Condensed Matter Physics This book has a different perspective It gives great importance to relativistic systems thus paving the way for various applications of Statistical Mechanics from nuclear reactions to Astrophysics and Cosmology Non relativistic systems and their applications to Condensed Matter Physics are not abandoned either there are discussions on gases liquids and magnetic systems The book ends with one chapter on Phase Transitions and one on Boltzmann equation Overall the book presents Statistical Mechanics from a broader perspective encompassing many branches of Physics **Introduction to Statistical Physics** Silvio Salinas, 2013-03-09 Intended for beginning graduate students or advanced undergraduates this text covers the statistical basis of equilibrium thermodynamics both classical and quantum including examples from solid state physics It also treats some topics of more recent interest such as phase transitions and non equilibrium phenomena The approach to equilibrium statistical mechanics is based on the Gibbs microcanonical ensemble The presentation introduces modern ideas such as the thermodynamic limit and the equivalence of ensembles and uses simple models ideal gas Einstein solid ideal

paramagnet to make the mathematical ideas clear Frequently used mathematical methods are reviewed in an appendix The book begins with a review of statistical methods and classical thermodynamics making it suitable for students from a variety of backgrounds Classical thermodynamics is treated in the in the context of the classical ideal gas and the canonical and grand canonical ensembles The discussion of quantum statistical mechanics includes Bose and Fermi gases the Bose Einstein condensation phonons and magnons Phase transitions are first treated classically using the van der Waals and Curie Weiss phenomenological models as examples and then quantum mechanically the Ising model scaling theory and renormalization The book concludes with two chapters on nonequilibrium phenomena one using Boltzmann's approach the other based on stochastic models Exercises at the end of each chapter are an integral part of the course clarifying and extending topics discussed in the text Hints and solutions can be found on the author's web site **Introduction to Statistical Physics** Kerson Huang, 2001-09-20 Statistical physics is a core component of most undergraduate and some post graduate physics degree courses It is primarily concerned with the behavior of matter in bulk from boiling water to the superconductivity of metals Ultimately it seeks to uncover the laws governing random processes such as the snow on your TV screen This essential new textbook guides the reader guickly and critically through a statistical view of the physical world including a wide range of physical applications to illustrate the methodology It moves from basic examples to more advanced topics such as broken symmetry and the Bose Einstein equation To accompany the text the author a renowned expert in the field has written a Solutions Manual Instructor's Guide available free of charge to lecturers who adopt this book for their courses Introduction to Statistical Physics will appeal to students and researchers in physics applied mathematics and statistics

Basics Of Statistical Physics (Third Edition) Harald J W Muller-kirsten, 2022-03-16 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 These basic principles include the difference between classical and quantum statistics a priori probabilities as related to degeneracies the vital aspect of indistinguishability as compared with distinguishability in classical physics the differences between conserved and non conserved elements 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 and averaging in the Darwin Fowler method Significant applications to solids radiation and electrons in metals are treated in separate chapters as well as Bose Einstein condensation In this latest edition apart from a general revision the topic of thermal radiation has been expanded with a new section on black bodies and an additional chapter on black holes Other additions are more examples with applications of statistical mechanics in solid state physics and superconductivity Throughout the presentation the introduction carries almost all details for calculations

\*\*Statistical Mechanics\*\* A. J. Berlinsky, A. B. Harris, 2019-10-03 In a

comprehensive treatment of Statistical Mechanics from thermodynamics through the renormalization group this book serves as the core text for a full year graduate course in statistical mechanics at either the Masters or Ph D level Each chapter contains numerous exercises and several chapters treat special topics which can be used as the basis for student projects The concept of scaling is introduced early and used extensively throughout the text At the heart of the book is an extensive treatment of mean field theory from the simplest decoupling approach through the density matrix formalism to self consistent classical and quantum field theory as well as exact solutions on the Cayley tree Proceeding beyond mean field theory the book discusses exact mappings involving Potts models percolation self avoiding walks and quenched randomness connecting various athermal and thermal models Computational methods such as series expansions and Monte Carlo simulations are discussed along with exact solutions to the 1D quantum and 2D classical Ising models The renormalization group formalism is developed starting from real space RG and proceeding through a detailed treatment of Wilson's epsilon expansion Finally the subject of Kosterlitz Thouless systems is introduced from a historical perspective and then treated by methods due to Anderson Kosterlitz Thouless and Young Altogether this comprehensive up to date and engaging text offers an ideal package for advanced undergraduate or graduate courses or for use in self study Probability Theory Yakov G. Sinai, 2013-03-09 Sinai s book leads the student through the standard material for ProbabilityTheory with stops along the way for interesting topics such as statistical mechanics not usually included in a book for beginners. The first part of the book covers discrete random variables using the same approach basedon Kolmogorov s axioms for probability used later for the general case The text is divided into sixteen lectures each covering a major topic The introductory notions and classical results are included of course random variables the central limit theorem the law of large numbers conditional probability random walks etc Sinai s style is accessible and clear with interesting examples to accompany new ideas Besides statistical mechanics other interesting less common topics found in the book are percolation the concept of stability in the central limit theorem and the study of probability of large deviations Little more than a standard undergraduate course in analysis is assumed of the reader Notions from measure theory and Lebesgue integration are introduced in the second half of the text The book is suitable for second or third year students in mathematics physics or other natural sciences It could also be usedby more advanced readers who want to learn the mathematics of probability theory and some of its applications in statistical physics

**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.

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