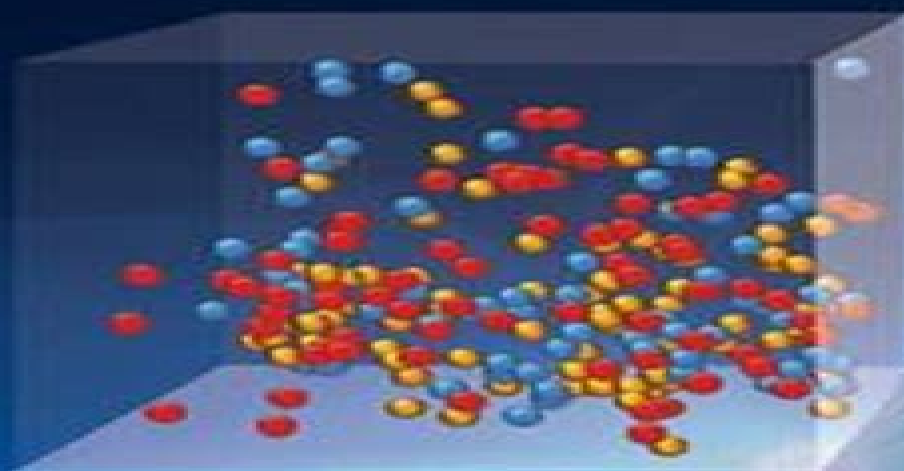


Introduction to Statistical Mechanics



John Dirk Walecka



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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**

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aid in student understanding **Introduction to Statistical Physics** Kerson Huang, 2001-11-09 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 ne Entropy and the Tao of Counting Kim Sharp, 2019-12-13 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 Statistical Thermodynamics Robert Paul Holland Gasser, William Graham Richards, 1995 Statistical thermodynamics plays a vital linking role between quantum theory and chemical thermodynamics yet students often find the subject unpalatable In this updated version of a popular text the authors overcome this by emphasising the concepts involved in particular demystifying the partition function They do not get bogged down in the mathematical niceties that are essential for a profound study of the subject but which can confuse the beginner Strong emphasis is placed on the physical basis of statistical thermodynamics and the relations with experiment After a clear exposition of the distribution laws partition functions heat capacities chemical equilibria and kinetics the subject is further illuminated by a discussion of low temperature phenomena and spectroscopy The coverage is brought right up to date with a chapter on computer simulation and a final section which ranges beyond the narrow limits usually associated with student texts to emphasise the common dependence of macroscopic behaviour on the properties of constituent atoms and molecules Since first published in 1974 as Entropy and Energy Levels the book has been very popular with students This revised and updated version will no doubt serve the same needs

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

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

Statistical Mechanics B. Widom, 2002-04-18 This book is an introduction to statistical mechanics intended for advanced undergraduate or beginning graduate students

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