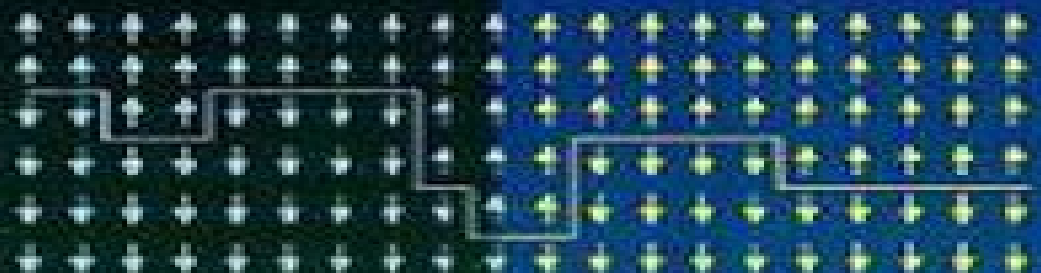


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starting from the basics going from the simple ideal systems to the interacting systems and ending with the more modern topics The textbook provides the student with a complete overview intentionally at an introductory level of the theory of phase transitions All equations and deductions are included

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Equilibrium Statistical Mechanics J. E. Mayer, 2013-10-22 The International Encyclopedia of Physical Chemistry and Chemical Physics Volume 1 Equilibrium Statistical Mechanics covers the fundamental principles and the development of theoretical aspects of equilibrium statistical mechanics Statistical mechanical is the study of the connection between the macroscopic behavior of bulk matter and the microscopic properties of its constituent atoms and molecules This book contains eight chapters and begins with a presentation of the master equation used for the calculation of the fundamental thermodynamic functions The succeeding chapters highlight the characteristics of the partition function and its application to the analysis of perfect and imperfect gases solids and dense fluids These topics are followed by discussions on the fundamentals of quantum statistics with particular emphasis on its application in certain media The last chapter outlines the derivation of the relations between the partition functions and the thermodynamic quantities This book will be of value to physical chemists chemical physicists mathematicians and researchers in the allied fields of statistical mechanics

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Statistical Mechanics Franz Schwabl,2006-06-13 This completely revised edition of the classical book on Statistical Mechanics covers the basic concepts of equilibrium and non equilibrium statistical physics In addition to a deductive approach to equilibrium statistics and thermodynamics based on a single hypothesis this book treats the most important elements of non equilibrium phenomena Intermediate calculations are presented in complete detail Problems at the end of each chapter help students to consolidate their understanding of the material Beyond the fundamentals this text demonstrates the breadth of the field and its great variety of applications **Statistical Physics I** Morikazu Toda,Ryogo Kubo,Nobuhiko Saito,1998-06-15 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

Nonequilibrium Statistical Mechanics Robert Zwanzig,2001-05-17 This is a presentation of the main ideas and methods of modern nonequilibrium statistical mechanics It is the perfect introduction for anyone in chemistry or physics who needs an update or background in this time dependent field Topics covered include fluctuation dissipation theorem linear response theory time correlation functions and projection operators Theoretical models are illustrated by real world examples and numerous applications such as chemical reaction rates and spectral line shapes are covered The mathematical treatments are detailed and easily understandable and the appendices include useful mathematical methods like the Laplace transforms Gaussian random variables and phenomenological transport equations **Nonequilibrium Statistical**

Thermodynamics D. Zubarev,1974 *Statistical Physics* Morikazu Toda,Ryogo Kubo,Nobuhiko Saitō,Natsuki Hashitsume,1983 Equilibrium And Non-equilibrium Statistical Mechanics (New And Revised Printing) Carolyn M Van Vliet,2008-06-11 This book encompasses our current understanding of the ensemble approach to many body physics phase transitions and other thermal phenomena as well as the quantum foundations of linear response theory kinetic equations and stochastic processes It is destined to be a standard text for graduate students but it will also serve the specialist researcher in this fascinating field some more elementary topics have been included in order to make the book self contained The historical methods of J Willard Gibbs and Ludwig Boltzmann applied to the quantum description rather than phase space are featured The tools for computations in the microcanonical canonical and grand canonical ensembles are carefully developed and then applied to a variety of classical and standard quantum situations After the language of second quantization has been

introduced strongly interacting systems such as quantum liquids superfluids and superconductivity are treated in detail For the connoisseur there is a section on diagrammatic methods and applications In the second part dealing with non equilibrium processes the emphasis is on the quantum foundations of Markovian behaviour and irreversibility via the Pauli Van Hove master equation Justifiable linear response expressions and the quantum Boltzmann approach are discussed and applied to various condensed matter problems From this basis the Onsager Casimir relations are derived together with the mesoscopic master equation the Langevin equation and the Fokker Planck truncation procedure Brownian motion and modern stochastic problems such as fluctuations in optical signals and radiation fields briefly make the round

Equilibrium Statistical Mechanics Edwin Atlee Jackson, 2000-01-01 Key features include an elementary introduction to probability distribution functions and uncertainty a review of the concept and significance of energy and various models of physical systems 1968 edition

Statistical Physics Ian Ford, 2013-03-27 This undergraduate textbook provides a statistical mechanical foundation to the classical laws of thermodynamics via a comprehensive treatment of the basics of classical thermodynamics equilibrium statistical mechanics irreversible thermodynamics and the statistical mechanics of non equilibrium phenomena This timely book has a unique focus on the concept of entropy which is studied starting from the well known ideal gas law employing various thermodynamic processes example systems and interpretations to expose its role in the second law of thermodynamics This modern treatment of statistical physics includes studies of neutron stars superconductivity and the recently developed fluctuation theorems It also presents figures and problems in a clear and concise way aiding the student s understanding

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