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Fundamentals of Statistical Mechanics: Manuscript and ...

Fundamentals of Statistical Mechanics by BB Laud is a nice introductory book. It bridges the gap between highly mathematical works and the usual less rigorous formulations of the subject. P.S : A chapter on basic concepts of probability has been included and it may prove

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useful for the beginners.

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Book: Fundamentals of Statistical Mechanics - Wikipedia

Statistical mechanics, one of the pillars of modern physics, describes how macroscopic observations are related to microscopic parameters that fluctuate around an average. It connects thermodynamic quantities to microscopic behavior, whereas, in classical thermodynamics, the only available option would be to measure and tabulate such quantities for various materials. Statistical mechanics is necessary for the fundamental study of any physical system that has many degrees of freedom. The approach

Statistical mechanics - Wikipedia

1. The Fundamentals of Statistical Mechanics 1.1 Introduction Statistical mechanics is the art of turning the microscopic laws of physics into a de-scription of Nature on a macroscopic scale. Suppose you've got theoretical physics cracked. Suppose you know all the funda-

Statistical Physics - DAMTP

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the statistical properties of the atomic or molecular motion. The method adopted in thermodynamics is essentially dictated by the enormous complexity of thermodynamic

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Statistical ideas are then applied to systems of particles in equilibrium to enhance an understanding of the basic notions of statistical mechanics, from which derive the purely macroscopic general statements of thermodynamics.

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Problems after each chapter

All macroscopic systems consist ultimately of atoms obeying the laws of quantum mechanics. That premise forms the basis for this comprehensive text, intended for a first upper-level course in statistical and thermal physics. Reif emphasizes that the combination of microscopic concepts with some statistical postulates leads readily to conclusions on a purely macroscopic level. The authors writing style and penchant for description energize interest in condensed matter physics as well as provide a conceptual grounding with information that is crystal clear and memorable. Reif first introduces basic probability concepts and statistical methods used throughout all of physics. Statistical ideas are then applied to systems of particles in equilibrium to enhance an understanding of the basic notions of statistical mechanics, from which derive the purely macroscopic general statements of thermodynamics. Next, he turns to the more complicated equilibrium situations, such as phase transformations and quantum gases, before discussing nonequilibrium situations in which he treats transport theory and dilute gases at varying levels of sophistication. In the last chapter, he addresses some general questions involving irreversible processes and fluctuations. A large amount of material is presented to facilitate students later access to more advanced works, to allow those with

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higher levels of curiosity to read beyond the minimum given on a topic, and to enhance understanding by presenting several ways of looking at a particular question. Formatting within the text either signals material that instructors can assign at their own discretion or highlights important results for easy reference to them. Additionally, by solving many of the 230 problems contained in the text, students activate and embed their knowledge of the subject matter.

This is the definitive treatise on the fundamentals of statistical mechanics. A concise exposition of classical statistical mechanics is followed by a thorough elucidation of quantum statistical mechanics: postulates, theorems, statistical ensembles, changes in quantum mechanical systems with time, and more. The final two chapters discuss applications of statistical mechanics to thermodynamic behavior. 1930 edition.

The 1952 Nobel physics laureate Felix Bloch (1905-83) was one of the titans of twentieth-century physics. He laid the fundamentals for the theory of solids and has been called the "father of solid-state physics." His numerous, valuable contributions include the theory of magnetism, measurement of the magnetic moment of the neutron, nuclear magnetic resonance, and the infrared problem in quantum electrodynamics. Statistical mechanics is a crucial subject which explores the understanding of the physical behaviour of many-body systems that create the world around us. Bloch's first-year graduate course at Stanford University was the highlight for several generations of students. Upon his retirement, he worked on a book based on the course. Unfortunately, at the time of his death, the writing was incomplete. This book has been prepared by Professor John Dirk Walecka from Bloch's

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unfinished masterpiece. It also includes three sets of Bloch's handwritten lecture notes (dating from 1949, 1969 and 1976), and details of lecture notes taken in 1976 by Brian Serot, who gave an invaluable opinion of the course from a student's perspective. All of Bloch's problem sets, some dating back to 1933, have been included. The book is accessible to anyone in the physical sciences at the advanced undergraduate level or the first-year graduate level.

This Book Is Meant To Be A Textbook For Graduate, Postgraduate And Research Students Of Physics And Chemistry. It Can Also Be Used As A Text-Book For 1St Year Engineering Students. The Book Includes Theories Of Phase Transitions Alongwith Their Range Of Validity. Topics Such As Chemical Equilibrium And Saha Ionization Formula Have Also Been Included In The Book. A Chapter On Basic Concepts Of Probability Has Been Included Which Is Of Auxiliary Nature And May Be Omitted By Those Who Are Acquainted With The Theory Of Probability. An Attempt Has Been Made To Emphasize The Physical Basis Of The Subject, But Without Undue Neglect Of Its Mathematical Aspects. The Book Thus Bridges The Gap Between Highly Mathematical Works And The Usual Less Rigorous Formulations Of The Subject. Problems Are Given At The End Of Each Chapter, These Are Meant To Be Read As Integral Part Of The Text. They Present A Number Of Applications And Also Serve To Illuminate Techniques.

Both a comprehensive overview and a treatment at the appropriate level of detail, this textbook explains thermodynamics and generalizes the subject so it can be applied to small nano- or biosystems, arbitrarily far from or close to equilibrium. In addition, nonequilibrium free energy

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theorems are covered with a rigorous exposition of each one. Throughout, the authors stress the physical concepts along with the mathematical derivations. For researchers and students in physics, chemistry, materials science and molecular biology, this is a useful text for postgraduate courses in statistical mechanics, thermodynamics and molecular simulations, while equally serving as a reference for university teachers and researchers in these fields.

The aim of this book is to provide the fundamentals of statistical physics and its application to condensed matter. The combination of statistical mechanics and quantum mechanics has provided an understanding of properties of matter leading to spectacular technological innovations and discoveries in condensed matter which have radically changed our daily life. The book gives the steps to follow to understand fundamental theories and to apply these to real materials.

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.

A comprehensive introduction to this important subject, presenting the fundamentals of classical and statistical thermodynamics through carefully developed concepts which are supported by many examples and applications. * Each chapter includes numerous carefully worked out examples and problems * Takes a more applied approach rather than theoretical * Necessary mathematics is left simple * Accessible to those fairly new to the subject

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Statistical Mechanics discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the statistical basis of thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 talks about the theory of simple gases. Chapters 7 and 8 examine the ideal Bose and Fermi systems. In the next three chapters, the book covers the statistical mechanics of interacting systems, which includes the method of cluster expansions, pseudopotentials, and quantized fields. Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners from wide array of disciplines, such as physics, chemistry, and engineering.

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