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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

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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.

International Series in Natural Philosophy, Volume 45: Statistical Mechanics discusses topics relevant to explaining the physical properties of matter in bulk. The book is comprised of 13 chapters that primarily focus on the equilibrium states of physical systems. Chapter 1 discusses the statistical basis of thermodynamics, and Chapter 2 covers the elements of ensemble theory. Chapters 3 and 4 tackle the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 reviews the theory of simple gases. Chapters 7 and 8 discuss the ideal Bose and Fermi systems. The book also covers the cluster expansion, pseudopotential, and quantized field methods. The theory of phase transitions and fluctuations are then discussed. The text will be of great use to researchers who wants to utilize statistical mechanics in their work.

Volume 5.

Statistical physics has its origins in attempts to describe the thermal properties of matter in terms of its constituent particles, and has played a fundamental role in the development of quantum mechanics. Based on lectures taught by Professor Kardar at MIT, this textbook introduces the central concepts and tools of statistical physics. It contains a chapter on probability and related issues such as

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the central limit theorem and information theory, and covers interacting particles, with an extensive description of the van der Waals equation and its derivation by mean field approximation. It also contains an integrated set of problems, with solutions to selected problems at the end of the book and a complete set of solutions is available to lecturers on a password protected website at www.cambridge.org/9780521873420. A companion volume, *Statistical Physics of Fields*, discusses non-mean field aspects of scaling and critical phenomena, through the perspective of renormalization group.

Statistical mechanics is the theory underlying condensed matter physics. This book outlines the theory in a simple and progressive way, at a level suitable for undergraduates. New to this edition are three chapters on phase transitions, which is now included in undergraduate courses. There are plenty of problems at the end of each chapter, and brief model answers are provided for odd-numbered problems.

The important changes quantum mechanics has undergone in recent years are reflected in this approach for students. A strong narrative and over 300 worked problems lead the student from experiment, through general principles of the theory, to modern applications. Stepping through results allows students to gain a thorough understanding. Starting with basic quantum mechanics, the book moves on to more advanced theory, followed by applications, perturbation methods and special fields, and ending with developments in the field. Historical, mathematical and philosophical boxes guide the student through the theory. Unique to this textbook are chapters on measurement and quantum optics, both at

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the forefront of current research. Advanced undergraduate and graduate students will benefit from this perspective on the fundamental physical paradigm and its applications. Online resources including solutions to selected problems, and 200 figures, with colour versions of some figures, are available at www.cambridge.org/Auletta.

University of Chicago Graduate Problems in Physics covers a broad range of topics, from simple mechanics to nuclear physics. The problems presented are intriguing ones, unlike many examination questions, and physical concepts are emphasized in the solutions. Many distinguished members of the Department of Physics and the Enrico Fermi Institute at the University of Chicago have served on the candidacy examination committees and have, therefore, contributed to the preparation of problems which have been selected for inclusion in this volume. Among these are Morrell H. Cohen, Enrico Fermi, Murray Gell-Mann, Roger Hildebrand, Robert S. Mulliken, John Simpson, and Edward Teller.

Statistical mechanics is one of the most exciting areas of physics today, and it also has applications to subjects as diverse as economics, social behavior, algorithmic theory, and evolutionary biology. *Statistical Mechanics in a Nutshell* offers the most concise, self-contained introduction to this rapidly developing field. Requiring only a background in elementary calculus and elementary mechanics, this book starts with the basics, introduces the most important developments in classical statistical mechanics over the last thirty years, and guides readers to the very threshold of today's cutting-edge research. *Statistical Mechanics in a Nutshell* zeroes in on the most relevant and promising advances in the field, including the theory of phase transitions, generalized Brownian motion and stochastic

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dynamics, the methods underlying Monte Carlo simulations, complex systems--and much, much more. The essential resource on the subject, this book is the most up-to-date and accessible introduction available for graduate students and advanced undergraduates seeking a succinct primer on the core ideas of statistical mechanics. Provides the most concise, self-contained introduction to statistical mechanics Focuses on the most promising advances, not complicated calculations Requires only elementary calculus and elementary mechanics Guides readers from the basics to the threshold of modern research Highlights the broad scope of applications of statistical mechanics

Statistical Mechanics, Fourth Edition explores the physical properties of matter based on the dynamic behavior of its microscopic constituents. This valuable textbook introduces the reader to the historical context of the subject before delving deeper into chapters about thermodynamics, ensemble theory, simple gases theory, Ideal Bose and Fermi systems, statistical mechanics of interacting systems, phase transitions, and computer simulations. In the latest revision, the book's authors have updated the content throughout, including new coverage on biophysical applications, updated exercises, and computer simulations. This updated edition will be an indispensable to students and researchers of statistical mechanics, thermodynamics, and physics. Retains the valuable organization and trusted coverage of previous market-leading editions Includes new coverage on biophysical applications and computer simulations Offers Mathematica files for student use and a secure solutions manual for qualified instructors Covers Bose-Einstein condensation in atomic gases, Thermodynamics of the early universe, Computer simulations: Monte Carlo and molecular dynamics, Correlation functions and scattering, Fluctuation-

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