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of Technology, Cambridge, USA, and a leading authority on quantum physics. He is a highly experienced textbook writer and has written Statistical Mechanics, also published by Wiley. Professor Huang's research interests focus on Bose-Einstein condensates and non-renormalizable theories.

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Kerson Huang, "Statistical Mechanics", Second Edition, Wiley.
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Frontiers in Physics , Benjamin (Perseus Books). Last updated
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Kerson Huang is Professor of Physics at the Massachusetts Institute of Technology, Cambridge, USA, and a leading authority on quantum physics. He is a highly experienced textbook writer and has written Statistical Mechanics, also published by Wiley. Professor Huang's research interests focus on Bose-Einstein condensates and non-renormalizable theories.

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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 quickly 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

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Many new problems and illustrations have been added to this edition.

A unique approach to quantum field theory, with emphasis on the principles of renormalization Quantum field theory is frequently approached from the perspective of particle physics. This book adopts a more general point of view and includes applications of condensed matter physics. Written by a highly respected writer and researcher, it first develops traditional concepts, including Feynman graphs, before moving on to key topics such as functional integrals, statistical mechanics, and Wilson's renormalization group. The connection between the latter and conventional perturbative renormalization is explained. Quantum Field Theory is an exceptional textbook for graduate students familiar with advanced

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quantum mechanics as well as physicists with an interest in theoretical physics. It features: * Coverage of quantum electrodynamics with practical calculations and a discussion of perturbative renormalization * A discussion of the Feynman path integrals and a host of current subjects, including the physical approach to renormalization, spontaneous symmetry breaking and superfluidity, and topological excitations * Nineteen self-contained chapters with exercises, supplemented with graphs and charts

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

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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.

Inspired by Richard Feynman and J.J. Sakurai, A Modern Approach

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to Quantum Mechanics allows lecturers to expose their undergraduates to Feynman's approach to quantum mechanics while simultaneously giving them a textbook that is well-ordered, logical and pedagogically sound. This book covers all the topics that are typically presented in a standard upper-level course in quantum mechanics, but its teaching approach is new. Rather than organizing his book according to the historical development of the field and jumping into a mathematical discussion of wave mechanics, Townsend begins his book with the quantum mechanics of spin. Thus, the first five chapters of the book succeed in laying out the fundamentals of quantum mechanics with little or no wave mechanics, so the physics is not obscured by mathematics. Starting with spin systems it gives students straightforward examples of the structure of quantum mechanics. When wave mechanics is

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introduced later, students should perceive it correctly as only one aspect of quantum mechanics and not the core of the subject.

Treating mechanics through a clearly written introduction of the theory of microscopic bodies based on the fundamental atomic laws, this book contains a brief but self-contained discussion of thermodynamics and the classical kinetic theory of gases. An introduction to the modern theory of critical phenomena is featured that is concise and pedagogically orientated. This second edition contains up-to-date coverage of recent major advances and important applications, such as superfluids and the Quantum Hall Effect. A large part of the text is devoted to selected applications of statistical mechanics and its value as an illustration of calculating techniques.

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' This book introduces an approach to protein folding from the point of view of kinetic theory. There is an abundance of data on protein folding, but few proposals are available on the mechanism driving the process. Here, presented for the first time, are suggestions on possible research directions, as developed by the author in collaboration with C C Lin. The first half of this invaluable book contains a concise but relatively complete review of relevant topics in statistical mechanics and kinetic theory. It includes standard topics such as thermodynamics, the Maxwell-Boltzmann distribution, and ensemble theory. Special discussions include the dynamics of phase transitions, and Brownian motion as an illustration of stochastic processes. The second half develops topics in molecular biology and protein structure, with a view to

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discovering mechanisms underlying protein folding. Attention is focused on the energy flow through the protein in its folded state. A mathematical model, based on the Brownian motion of coupled harmonic oscillators, is worked out in the appendix.

Contents: Entropy Maxwell-Boltzmann Distribution Free Energy Chemical Potential Phase Transitions Kinetics of Phase Transitions The Order Parameter Correlation Function Stochastic Processes Langevin Equation The Life Process Self-Assembly Kinetics of Protein Folding Power Laws in Protein Folding Self-Avoiding Walk and Turbulence Convergent Evolution in Protein Folding Readership: Graduate students, researchers and academics interested in statistical physics and molecular biology.

Keywords: Statistical Physics; Protein

Folding; Biophysics Reviews: My particularly favorite is the chapter

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on order parameters, explaining with simplicity and clarity this subject so frequently difficult and confusing for the beginning students – the book makes a strong attempt to place the protein folding problem where it really belongs – in the context of fundamental statistical mechanics. Whether the attempt is successful or not is a matter of a reader's opinion, but the very direction is both timely and welcome. – Professor Alexander Grosberg University of Minnesota '

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introductory mechanics and some basic ideas of quantum theory, discussing material typically found in undergraduate texts as well as topics such as fluids, critical phenomena, and computational techniques, which serve as a natural bridge to graduate study.

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