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Abstract Herbert Callen was a theoretical physicist who contributed to the field of statistical mechanics. He also wrote a textbook on thermodynamics and taught at University of Pennsylvania. Other institutional affiliations include Temple University and Massachusetts Institute of Technology.

Callen, Herbert B.
Herbert Bernard Callen (July 1, 1919 – May 22, 1993) was an American physicist specializing in thermodynamics and statistical mechanics. [1] He is considered one of the founders of the modern theory of irreversible thermodynamics, [2] and is the author of the classic textbook Thermodynamics and An Introduction to Thermostatistics , published in two editions. [3]

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Herbert B. Callen The first edition of this text established a new conceptual structure for thermodynamics. This now classical structure is maintained in the present edition which includes a simple descriptive account of recent advances in critical phenomena and a fully compatible but logically distinct introduction to statistical mechanics.

Thermodynamics and an Introduction to Thermostatistics ...
Thermodynamics, science of the relationship between heat, work, temperature, and energy. Thermodynamics deals with the transfer of energy from one place to another and from one form to another. The key concept is that heat is a form of energy corresponding to a definite amount of mechanical work.

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The laws of thermodynamics are amongst the most assured and wide-ranging of all scientific laws. They do not pretend to explain any observation in molecular terms but, by showing the necessary relationships between different physical properties, they reduce otherwise disconnected results to compact order, and predict new effects. This classic title, first published in 1957, is a systematic exposition of principles, with examples of applications, especially to changes of places and the conditions for stability. In all this entropy is a key concept.

This introductory textbook for standard undergraduate courses in thermodynamics has been completely rewritten to explore a greater number of topics, more clearly and concisely. Starting with an overview of important quantum behaviours, the book teaches students how to calculate probabilities in order to provide a firm foundation for later chapters. It introduces the ideas of classical thermodynamics and explores them both in general and as they are applied to specific processes and interactions. The remainder of the book deals with statistical mechanics. Each topic ends with a boxed summary of ideas and results, and every chapter contains numerous homework problems, covering a broad range of difficulties. Answers are given to odd-numbered problems, and solutions to even-numbered problems are available to instructors at www.cambridge.org/9781107694927.

An important task of theoretical quantum physics is the building of idealized mathematical models to describe the properties of quantum matter. This book provides an introduction to the arguably most important method for obtaining exact results for strongly interacting models of quantum matter - the Bethe ansatz. It introduces and discusses the physical concepts and mathematical tools used to construct realistic models for a variety of different fields, including condensed matter physics and quantum optics. The various forms of the Bethe ansatz - algebraic, coordinate, multicomponent, and thermodynamic Bethe ansatz, and Bethe ansatz for finite systems - are then explained in depth and employed to find exact solutions for the physical properties of the integrable forms of strongly interacting quantum systems. The Bethe ansatz is one of the very few methodologies which can calculate physical properties non-perturbatively. Arguably, it is the only such method we have which is exact. This means, once the model has been set up, no further approximations or assumptions are necessary, and the relevant physical properties of the model can be computed exactly. Furthermore, an infinite set of conserved quantities can be obtained. The quantum mechanical model under consideration is fully integrable. This makes the search for quantum models which are amenable to an exact solution by the Bethe ansatz, and which are quantum integrable, so important and rewarding. The exact solution will provide benchmarks for other models, which do not admit an exact solution. Bethe ansatz techniques provide valuable insight into the physics of strongly correlated quantum matter.

The canonical ensemble - Other ensembles and fluctuations - Boltzmann statistics, fermi-dirac statistics, and bose-einstein statistics - Ideal monatomic gas - Ideal diatomic - Classical statistical mechanics - Ideal polyatomic - Chemical equilibrium - Quantum statistics - Crystals - Imperfect gases - Distribution functions in classical monatomic liquids - Perturbation theories of liquids - Solutions of strong electrolytes - Kinetic theory of gases and molecular collisions - Continuum mechanics - Kinetic theory of-gases and the boltzmann equation - Transport processes in dilute gases - Theory of brownian motion - The time-correlation function formalism.

This text presents statistical mechanics and thermodynamics as a theoretically integrated field of study. It stresses deep coverage of fundamentals, providing a natural foundation for advanced topics. The large problem sets (with solutions for teachers) include many computational problems to advance student understanding.