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state variables, such as the
temperature and volume. Most of the
aggregate thermodynamic variables of
the system, such as the total energy ...

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the study of the energy associated
with temperature. Thermodynamics
(from the Greek words meaning...

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physics that deals with heat, work,
and temperature, and their relation to
energy, radiation, and physical
properties of matter. The behavior of
these quantities is governed by the
four laws of thermodynamics which
convey a quantitative description
using measurable macroscopic

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physical quantities, but may be
explained in terms of microscopic
constituents by ...

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hand, internal energy is a property of
a single system.

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“ thermodynamics ” comes from the
Greek words ‘ therme ’ and

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'dynamic which means _____. A.
Heat power B. Heat transfer C. Heat
energy D.

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exposition of the theory of
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statistical mechanics at a level suitable
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students. The fundamental message of
the book is that all results in
equilibrium thermodynamics and
statistical mechanics follow from a

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single unprovable axiom — namely, the principle of equal a priori probabilities — combined with elementary probability theory, elementary classical mechanics, and elementary quantum mechanics.

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form of combinatorial method, in
which the molecules of a gas are
endowed with a physically real
existence. This chapter also considers
the various numerical combinations
that govern the way in which the
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constituting the substance of the
statistics. Chapter V explores the
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reference. The presentation of
thermodynamics follows the logic of
Clausius and Kelvin while relating the

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concepts involved to familiar phenomena and the modern student's knowledge of the atomic nature of matter. Another unique aspect of the book is the treatment of the mathematics involved. The essential mathematical concepts are briefly reviewed before using them, and the

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employed in other fields of physics is
emphasized. The text gives in depth
treatments of low density gases,
harmonic solids, magnetic and
dielectric materials, phase transitions,
and the concept of entropy. The
microcanonical, canonical, and grand

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canonical ensembles of statistical
mechanics are derived and used as the
starting point for the analysis of
fluctuations, blackbody radiation, the
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statistics, Bose-Einstein condensation,
and the statistical basis of computer
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All macroscopic systems consist
ultimately of atoms obeying the laws
of quantum mechanics. That premise

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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

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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

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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

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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

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processes and fluctuations. A large
amount of material is presented to
facilitate students later access to more
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higher levels of curiosity to read
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