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~~Thermal energy - Wikipedia~~
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thermal physics followed by a presentation of the statistical theory, this book presupposes no exposure to statistics or quantum mechanics.

This textbook familiarizes the students with the general laws of thermodynamics, kinetic theory & statistical physics, and their applications to physics. Conceptually strong, it is flourished with numerous figures and examples to facilitate understanding of concepts. Written primarily for B.Sc. Physics students, this textbook would also be a useful reference for students of engineering.

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Lectures on Theoretical Physics, Volume V: Thermodynamics and Statistical Mechanics discusses the significant developments and problems in the study of thermodynamics and statistical mechanics. This volume contains five chapters. The first two chapters provide an overview of the various aspects and applications of thermodynamics. Chapter III contains a preliminary introduction to statistical mechanics, with an emphasis on the Brownian motion, which is the most important example of statistical fluctuations. Chapter IV describes the Boltzmann ’ s original 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 mutually indistinguishable particles are distributed over the states constituting the substance of the statistics. Chapter V explores the behavior of molecules in perfect gases following the course of historical development. This chapter covers an exact formulation of the kinetic theory of gases. Physics teachers and students will find this book invaluable.

Volume 5.

This Book Emphasises The Development Of Problem Solving Skills In Undergraduate Science And Engineering Students.The Book Provides More Than 350 Solved Examples With Complete Step-By-Step Solutions As Well As Around 100 Practice Problems With Answers.Also Explains The Basic Theory, Principles, Equations And Formulae For A Quick Understanding And Review. Can Serve Both As A Useful Text And Companion Book To Those Pre-Paring For Various Examinations In Physics.

An introduction to thermal physics which combines both a macroscopic and microscopic approach for each method, giving a basis for further studies of the properties of matter, whether from a thermodynamic or statistical angle.

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 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.