



Statistical Mechanics: Principles and Selected Applications

By Terrell L. Hill

Dover Publications Inc., United States, 1988. Paperback. Book Condition: New. New edition. 211 x 137 mm. Language: English. Brand New Book. Excellent. a welcome addition to the literature on the subject. -- Science Before the publication of this standard, oft-cited book, there were few if any statistical-mechanics texts that incorporated reviews of both fundamental principles and recent developments in the field. In this volume, Professor Hill offers just such a dual presentation -- a useful account of basic theory and of its applications, made accessible in a comprehensive format. The book opens with concise, unusually clear introductory chapters on classical statistical mechanics, quantum statistical mechanics and the relation of statistical mechanics to thermodynamics. Then follows a wide-ranging, detailed examination of various applications. Chapter 4 deals with fluctuations. The fifth chapter treats the theory of imperfect gases and condensation, largely following Mayer s theory but also giving some new, alternative derivations and discussing in the final section Yang and Lee s theory. The sixth chapter is devoted to a discussion of distribution functions and the theory of the liquid state. Chapter 7 deals with nearestneighbor (Ising) lattice statistics, while the last chapter discusses free-volume and hole theories of liquids...



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