

# Fundamentals of Statistical and Thermal Physics

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This book is designed for the junior-senior thermodynamics course given in all departments as a standard part of the curriculum. The book is devoted to a discussion of some of the basic physical concepts and methods useful in the description of situations involving systems which consist of very many particulars. It attempts, in particular, to introduce the reader to the disciplines of thermodynamics, statistical mechanics, and kinetic theory from a unified and modern point of view. The presentation emphasizes the essential unity of the subject matter and develops physical insight by stressing the microscopic content of the theory.

"This is a wonderful textbook that is pedagogically sound and provides a gentle introduction to statistical reasoning in thermodynamics and statistical mechanics. The introduction of the microscopic approach to appreciate thermodynamics is noteworthy. The textbook will adequately serve both undergraduates and beginning graduate students." -- Dilip Asthagiri, Johns Hopkins University  
"Waveland has done a fine job in reissuing this classic text. Especially useful for instructors is the disc with Knacke's solutions to Reif's homework problems." --Bernard Weinstein, SUNY Buffalo

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