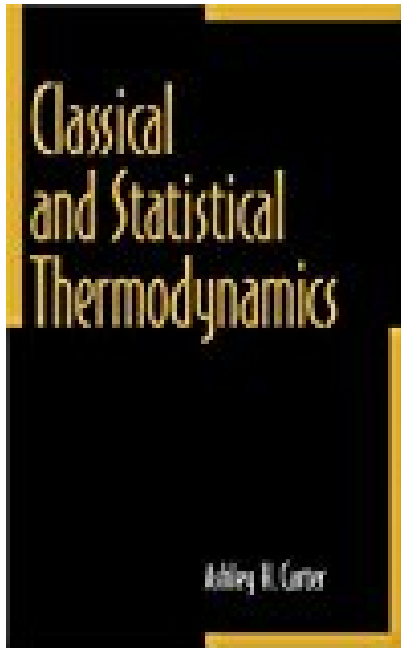


Classical and Statistical Thermodynamics



BOOK DETAILS

- Author : Ashley H. Carter
- Pages : 432 Pages
- Publisher : Prentice Hall
- Language : English
- ISBN : 0137792085

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BOOK SYNOPSIS

Fundamentals of Classical and Statistical Thermodynamics provides a comprehensive introduction to this pivotal subject. Starting from basics, the book begins with a thorough introduction to the field, providing concise definitions and an overview of thermodynamics and its applications. The book discusses the fundamentals of classical equilibrium thermodynamics, thermal physics, kinetic theory and statistical mechanics. This comprehensive coverage enables the reader to understand not only the interrelationships between these subjects but also encourages an ability to interpret the thermodynamic quantities and laws in terms of statistical mechanics. Beginning with a detailed discussion of the four laws of thermodynamics the text introduces more advanced topics in later chapters, such as applications of the first and second laws, free energy and chemical equilibria, and equilibrium statistical mechanics and applications. Uniquely, this text includes a large number of worked examples throughout, with a range of problems at the end of each chapter and their solutions all at the end of the book. The most fundamental concepts of the subject are emphasised throughout and new derivations of many of the standard formulae have been developed to avoid excessive mathematical rigour. Fundamentals of Classical and Statistical Thermodynamics: * Provides a comprehensive introduction to the field, covering both classical and statistical thermodynamics. * Includes numerous worked examples and end of chapter problems with answers provided at the back of the book. * Covers the essentials of the subject combined with cutting-edge material such as non-linear chemical physics, critical phenomena and transport theory. * Ensures the necessary mathematics are limited to simple derivatives and integrals. Suitable for all undergraduate students of physics, chemistry, materials science and engineering. Will also be an ideal reference book for those working within science and engineering.

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