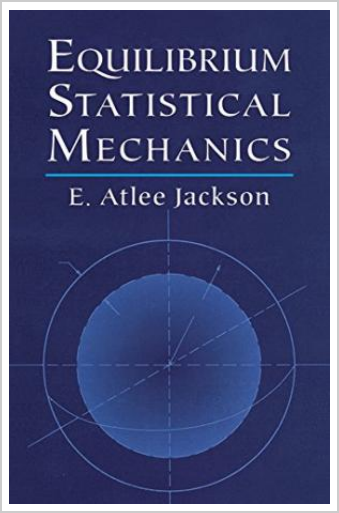

Equilibrium Statistical Mechanics (Hardback)

By Jackson

Dover Publications Inc., United States, 2000. Hardback. Condition: New. Language: English . Brand New Book. Ideal as an elementary introduction to equilibrium statistical mechanics, this volume covers both classical and quantum methodology for open and closed systems. Introductory chapters familiarize readers with probability and microscopic models of systems, while additional chapters describe the general derivation of the fundamental statistical mechanics relationships. The final chapter contains 16 sections, each dealing with a different application, ordered according to complexity, from classical through degenerate quantum statistical mechanics. Key features include an elementary introduction to probability, distribution, functions, and uncertainty prior to a discussion of statistical mechanics; a review of the concept and significance of energy, together with a discussion of various models of physical systems. A series of appendixes contains helpful information on Gaussian integrals, the error function, the entropy constant, solutions to problems, and other subjects. A background in integral calculus is assumed, but because material is presented at a reasonable level of complexity, even readers not familiar with quantum mechanics can make use of at least two-thirds of this book. Index. 5 Appendixes. Problems at ends of chapters. Over 100 text figures.

Reviews

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