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With $N_1 = \alpha N$ and $N_2 = (1 - \alpha)N$, where $N = N_1 + N_2$ (which is fixed), the expression for $(\Delta S)^*/k$ takes the form $-\alpha N \ln \alpha - (1 - \alpha)N \ln (1 - \alpha)$. The first and second derivatives of this expression with respect to α are $N[-N \ln \alpha + N \ln(1 - \alpha)]$ and

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Obtain $p(x)dx$, that is, the probability of finding the oscillator with position between x and $x+dx$. Note that it is enough to calculate $dT=T$, where T is a period of oscillation, and dT is an interval of time, within a

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period, in which the amplitude remains between x and $x + dx$. Draw a graph of $p(x)$ versus x .

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quantum statistics, while Chapter 6 talks about the theory of simple gases. Chapters 7 and 8 examine the ideal Bose and Fermi systems. In the next three chapters, the book covers the statistical mechanics of interacting systems, which includes the method of cluster expansions, pseudopotentials, and quantized fields. Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners from wide array of disciplines, such as physics, chemistry, and engineering.

This textbook covers the basic principles of statistical physics and thermodynamics. The text is pitched at

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