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With $N_1 = N$ and $N_2 = (1 - \alpha)N$,
where $N = N_1 + N_2$ (which is fixed),
the expression for $(S) / k$ takes the
form $- N \ln \alpha - (1 - \alpha)N \ln (1 - \alpha)$.
The first and second derivatives of
this expression with respect to α are
 $NN[- \ln \alpha + \ln(1 - \alpha)]$ and $-$
 $(2a,b) \frac{1}{\alpha(1 - \alpha)}$ respectively.

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Statistical Mechanics (Oxford 1987 - ISBN: 9780195042771), to be used as an ancillary to the text. The instructive numerical work in the manual is an important supplement, because the material can only be learned by tackling the exercises.

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This instructor ' s manual for the third edition of Statistical Mechanics is based on RKP ' s instructor ' s manual for the second edition. Most of the solutions here were retypeset into TeX from that manual. PDB is responsible for the solutions of the new problems added in the third edition. The result is a manual

Statistical Mechanics

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 period, in which the amplitude remains between

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x and $x + dx$. Draw a graph of $p(x)$ versus x .

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Statistical Mechanics 3rd Edition

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This third edition of one of the most important and best selling textbooks in statistical physics, is a graduate level text suitable for students in physics, chemistry, and materials science. The discussion of strongly interacting condensed matter systems has been expanded. A chapter on stochastic processes has also been added with emphasis on applications of the Fokker-Planck equation. The modern theory of phase transitions occupies a central place. The chapter devoted to the renormalization group approach is largely rewritten and includes a detailed discussion of the basic concepts and examples of both exact and approximate calculations. The development of the basic tools includes a chapter on computer

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simulations in which both Monte Carlo method and molecular dynamics are introduced, and a section on Brownian dynamics added. The theories are applied to a number of important systems such as liquids, liquid crystals, polymers, membranes, Bose condensation, superfluidity and superconductivity. There is also an extensive treatment of interacting Fermi and Bose systems, percolation theory and disordered systems in general.

Statistical Mechanics discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the statistical

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basis of thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of 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.

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Lectures on elementary statistical mechanics, taught at the University of Illinois and at the University of Pennsylvania.

This textbook covers the basic principles of statistical physics and thermodynamics. The text is pitched at the level equivalent to first-year graduate studies or advanced undergraduate studies. It presents the subject in a straightforward and lively manner. After reviewing the basic probability theory of classical thermodynamics, the author addresses the standard topics of statistical physics. The text

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demonstrates their relevance in other scientific fields using clear and explicit examples. Later chapters introduce phase transitions, critical phenomena and non-equilibrium phenomena.

Statistical physics has its origins in attempts to describe the thermal properties of matter in terms of its constituent particles, and has played a fundamental role in the development of quantum mechanics. Based on lectures taught by Professor Kardar at MIT, this textbook introduces the central concepts and tools of statistical physics. It contains a chapter on probability and related issues such as the central limit theorem and information theory, and covers interacting particles, with an extensive description of the van der

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Waals equation and its derivation by mean field approximation. It also contains an integrated set of problems, with solutions to selected problems at the end of the book and a complete set of solutions is available to lecturers on a password protected website at www.cambridge.org/9780521873420. A companion volume, *Statistical Physics of Fields*, discusses non-mean field aspects of scaling and critical phenomena, through the perspective of renormalization group.

The authors have prepared a solutions manual to "Introduction to Modern Statistical Mechanics," to be used as an ancillary to the text. The instructive numerical work in the manual is an important supplement to the original text.

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Statistical mechanics is the theory underlying condensed matter physics. This book outlines the theory in a simple and progressive way, at a level suitable for undergraduates. New to this edition are three chapters on phase transitions, which is now included in undergraduate courses. There are plenty of problems at the end of each chapter, and brief model answers are provided for odd-numbered problems.

Volume 5.

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