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A Course in Statistical Thermodynamics explores the physical aspects of the methodology of statistical thermodynamics without the use of advanced mathematical methods. This book is divided into 14 chapters that focus on a correct statement of the Gibbsian ensemble theory couched in quantum-mechanical terms throughout. The introductory chapters emphasize the concept of equilibrium, phase space, the principle of their quantization, and the fundamentals of quantum mechanics and spectroscopy. These topics are followed by an exposition of the statistical method, revealing that the structure of the physical theory is closely modeled on mathematical statistics. A chapter focuses on stationary ensembles and the restatement of the First, Second, and Third Law of Thermodynamics. The remaining chapters highlight the various specialized applications of statistical thermodynamics, including real and degenerate gases, simple solids, radiation, magnetic systems, nonequilibrium states, and fluctuations. These chapters also provide a rigorous derivation of Boltzmann's equation, the H-theorem, and the vexing paradox that arises when microscopic reversibility must be reconciled with irreversible behavior in the large. This book can be used for two semesters in the junior or senior years, or as a first-year graduate course in statistical thermodynamics.

Solutions to Selected Problems Oxford University Press, USA

This unique book on ordinary differential equations addresses practical issues of composing and solving such equations by large number of examples and homework problems with solutions. These problems originate in engineering, finance, as well as science at appropriate levels that readers with the basic knowledge of

calculus, physics or economics are assumed able to follow.

Solutions to Selected Problems in A Course in Statistical Thermodynamics

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The selected solution manual for students contains complete, step-by-step solutions to selected odd-numbered end-of-chapter problems.

Solutions to Selected Problems from Applied Dynamics

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Solutions to Selected Problems In a Course in Statistical Thermodynamics is the companion book to A Course in Statistical Thermodynamics. This title provides the solutions to a select number of problems contained in the main title. The problem sets explore the physical aspects of the methodology of statistical thermodynamics without the use of advanced mathematical methods. This book is divided into 14 chapters that focus on such items as the statistical method to various specialized applications of statistical thermodynamics.

Student's Selected Solutions Manual for Introductory Chemistry John Wiley & Sons Incorporated

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the authors in preparing this English version translated from the Italian. For physicists and especially for graduate and advanced undergraduate students in theoretical physics, this book is a positive guide in the intricacies of problem-solving. A further feature that adds practical value to this book is that most problems correspond to realistic physical processes and their numerical results are compared to experimental values whenever possible. Request Inspection Copy

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Intended as supplementary material for undergraduate physics students, this wide-ranging collection of problems in applied mathematics and physics features complete solutions. The problems were specially chosen for the inventiveness and resourcefulness their solutions demand, and they offer students the opportunity to apply their general knowledge to specific areas. Numerous problems, many of them illustrated with figures, cover a diverse array of fields: kinematics; the dynamics of motion in a straight line; statics; work, power, and energy; the dynamics of motion in a circle; and the universal theory of gravitation. Additional topics include oscillation, waves, and sound; the mechanics of liquids and gases; heat and capillary phenomena; electricity; and optics.

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contains complete, step-by-step solutions to selected odd-numbered end-of-chapter problems.

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