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learning of thermodynamics and teach students how to apply thermodynamics to real world engineering problems

Polymer Thermodynamics Kal Renganathan Sharma, 2011-10-10 Polymer Thermodynamics Blends Copolymers and Reversible Polymerization describes the thermodynamic basis for miscibility as well as the mathematical models used to predict the compositional window of miscibility and construct temperature versus volume fraction phase diagrams The book covers the binary interaction model the solubility parameter *Macroscopic And Statistical Thermodynamics: Expanded English Edition* Yi-chen Cheng, 2006-08-08 This textbook addresses the key questions in both classical thermodynamics and statistical thermodynamics Why are the thermodynamic properties of a nano sized system different from those of a macroscopic system of the same substance Why and how is entropy defined in thermodynamics and how is the entropy change calculated when dissipative heat is involved What is an ensemble and why is its theory so successful Translated from a highly successful Chinese book this expanded English edition contains many updated sections and several new ones They include the introduction of the grand canonical ensemble the grand partition function and its application to ideal quantum gases a discussion of the mean field theory of the Ising model and the phenomenon of ferromagnetism as well as a more detailed discussion of ideal quantum gases near $T = 0$ for both Fermi and Bose gases *Core Concepts of Mechanics and Thermodynamics* Rituraj Dalal, 2025-02-20 Core Concepts of Mechanics and Thermodynamics is a textbook designed for students and anyone interested in these crucial areas of physics The book begins with the basics of mechanics covering motion forces and energy and then moves on to thermodynamics discussing heat temperature and the laws of thermodynamics The book emphasizes clear explanations and real world examples to illustrate concepts and it also provides problem solving techniques to apply what you learn It covers mechanics and thermodynamics from basic principles to advanced topics explains concepts clearly with examples teaches problem solving techniques connects theory to real world applications in engineering physics and materials science and includes historical context to show the development of these ideas Core Concepts of Mechanics and Thermodynamics is a valuable resource for students teachers and self learners Whether you are beginning your journey or seeking to deepen your understanding this book provides a solid foundation in these essential subjects

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