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This unique introduction to modern thermodynamics integrates classical, statistical and molecular approaches, and is especially designed for students studying chemical and biochemical engineering. Includes detailed worked examples, emphasizing real-world applications of thermodynamics; over 300 tailored homework problems plus an online solution manual for instructors; and all the necessary mathematical background.

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Master the principles of thermodynamics, and understand their practical real-world applications, with this deep and intuitive undergraduate textbook.

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Molecular Driving Forces, Second Edition E-book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes. It demonstrates how the complex behaviors of molecules can result from a few simple physical processes, and how simple models provide surprisingly accurate insights into the workings of the molecular world. Widely adopted in its First Edition, Molecular Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts. The Second Edition includes two brand new chapters: (1) "Microscopic Dynamics" introduces single molecule experiments; and (2) "Molecular Machines" considers



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Learn classical thermodynamics alongside statistical mechanics and how macroscopic and microscopic

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Thermodynamics: Fundamentals and Applications is a 2005 text for a first graduate course in Chemical Engineering. The focus is on macroscopic thermodynamics; discussions of modeling and molecular situations are integrated throughout. Underpinning this text is the knowledge that while thermodynamics describes natural phenomena, those descriptions are the products of creative, systematic minds. Nature unfolds without reference to human concepts of energy, entropy, or fugacity. Natural complexity can be organized and studied by

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thermodynamics methodology. The power of thermodynamics can be used to advantage if the fundamentals are understood. This text's emphasis is on fundamentals rather than modeling. Knowledge of the basics will enhance the ability to combine them with models when applying thermodynamics to practical situations. While the goal of an engineering education is to teach effective problem solving, this text never forgets the delight of discovery, the satisfaction of grasping intricate concepts, and the stimulation of the scholarly atmosphere.

This text emphasizes the behaviour of material from the molecular point of view. It is for engineering

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Clearly connects macroscopic and microscopic thermodynamics and explains non-equilibrium behavior in kinetic theory and chemical kinetics.

This undergraduate textbook integrates the teaching of numerical methods and programming with problems from core chemical engineering subjects.

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This textbook facilitates students' ability to apply fundamental principles and concepts in classical thermodynamics to solve challenging problems relevant to industry and everyday life. It also

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introduces the reader to the fundamentals of statistical mechanics, including understanding how the microscopic properties of atoms and molecules, and their associated intermolecular interactions, can be accounted for to calculate various average properties of macroscopic systems. The author emphasizes application of the fundamental principles outlined above to the calculation of a variety of thermodynamic properties, to the estimation of conversion efficiencies for work production by heat interactions, and to the solution of practical thermodynamic problems related to the behavior of non-ideal pure fluids and fluid mixtures, including phase equilibria and chemical reaction equilibria. The

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material taught, into a concise yet rigorous graduate and advanced undergraduate text; Enriches the standard curriculum with succinct, problem-based learning strategies derived from the content of 50 lectures given over the years in the Department of Chemical Engineering at MIT; Reinforces concepts covered with detailed solutions to illuminating and challenging homework problems.

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