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**Sinopsis**

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This book moves students toward a clear understanding and a firm grasp of the basic principles of thermodynamics. It communicates directly with tomorrow's engineers in a simple yet precise manner that encourages creative thinking. This edition presents an early introduction to the First Law of Thermodynamics, and establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-economics, and conversion efficiency. It features over 700 new homework problems which further enhance the extensive and diverse homework problem sets, and physical intuition to help students develop a sense of the underlying physical mechanisms and a mastery of solving practical problems that an engineer is likely to face in the real world. The title includes a free Student Resources DVD containing Limited Academic Version of EES (Engineering Equation Solver) software with scripted solutions to selected text problems, Physical experiments in thermodynamics with videos and complete write-ups of the experiments, as well as actual data, and an Interactive Thermodynamics Tutorial to reinforce student learning of thermodynamics concepts.