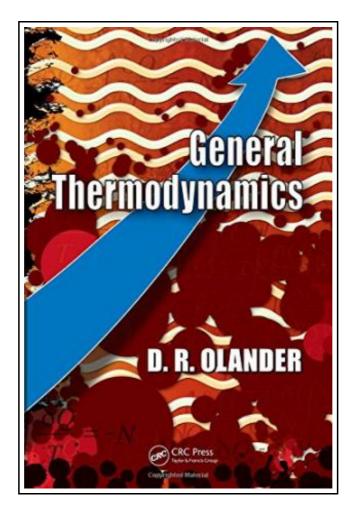
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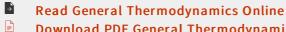
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CRC Press/Star Educational Books Distributors, 2007. Hardcover. Book Condition: New. Because classical thermodynamics evolved into many branches of science and engineering, most undergraduate courses on the subject are taught from the perspective of each area of specialization. General Thermodynamics combines elements from mechanical and chemical engineering, chemistry (including electrochemistry), materials science, and biology to present a unique and thorough treatment of thermodynamics that is broader in scope than other fundamental texts. This book contains classroom-tested materials designed to meet the academic requirements for students from a variety of scientific and engineering backgrounds in a single course. The first half focuses on classical concepts of thermodynamics, whereas the latter half explores field-specific applications, including a unique chapter on biothermodynamics. The book?s methodology is unified, concise, and multidisciplinary, allowing students to understand how the principles of thermodynamics apply to all technical fields that touch upon this most fundamental of scientific theories. It also offers a rigorous approach to the quantitative aspects of thermodynamics, accompanied by clear explanations to help students transition smoothly from the physical concepts to their mathematical representations. Each chapter contains numerous worked examples taken from different engineering applications, illustrations, and an extensive set of exercises to support the material. A complete solutions manual is available to professors with qualifying course adoptions. Equilibrium Components, Phases, and the Gibbs Phase Rule Equations of State What Is an Equation of state? The Ideal Gas Law Nonideal (Real) Gases Thermal Equations of State: The Specific Heat of Gases Thermodynamic Properties of Solids and Liquids Graphical Representations of the Equation of State of Water The Steam Tables Application of the First and Second Laws to Processes in Closed Systems Scope The Isochoric Process The Isothermal Process The Isobaric Process The Isentropic Process More Complicated Processes Effect of Phase Changes on the Thermal Properties of...



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