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conservation of energy (the first law of thermodynamics) is very useful here: 1
 $Q_2 - Q_1 - W_2 = m [(u_2 - u_1) + V_2^2 - V_1^2 + g(z_2 - z_1)]$
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thermodynamic properties of materials by accurate electrochemical methods, but also defines the maximum cell voltage of a specific chemical reaction and its dependence on concentration, temperature, and pressure.

Thermodynamics - an overview |

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Thermodynamics System: A thermodynamic system is defined as a quantity of matter or a region in space upon which attention is concentrated in the analysis of a problem. Before going to move on the definition of Surrounding, Boundary, Universe first

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considers a system as shown in the
figure:

*Thermodynamics system-Closed,
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This textbook is for a one semester introductory course in thermodynamics, primarily for use in a mechanical or aerospace engineering program, although it could also be used in an engineering science

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curriculum. The book contains a section on the geometry of curves and surfaces, in order to review those parts of calculus that are needed in thermodynamics for interpolation and in discussing thermodynamic equations of state of simple substances. It presents the First Law

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of Thermodynamics as an equation for the time rate of change of system energy, the same way that Newton's Law of Motion, an equation for the time rate of change of system momentum, is presented in Dynamics. Moreover, this emphasis illustrates the importance of the equation to the

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study of heat transfer and fluid mechanics. New thermodynamic properties, such as internal energy and entropy, are introduced with a motivating discussion rather than by abstract postulation, and connection is made with kinetic theory.

Thermodynamic properties of the

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vaporizable liquids needed for the solution of practical thermodynamic problems (e.g. water and various refrigerants) are presented in a unique tabular format that is both simple to understand and easy to use. All theoretical discussions throughout the book are accompanied by worked

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Many additional problems are provided, half of them with answers, for students to do on their own.

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applications. The chapters dealing with
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on turbomachinery is also unique. A thorough development of the second law of thermodynamics is provided in chapters 7-9. The ramifications of the second law receive thorough discussion; the student not only performs calculations, but understands the implications of the calculated

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