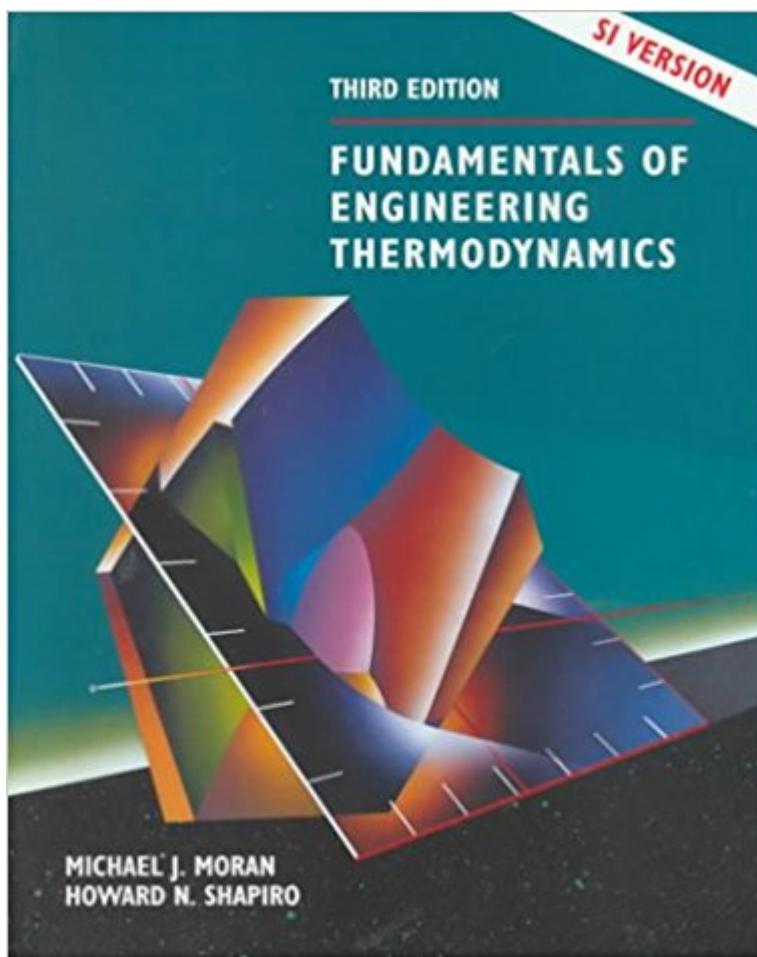


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Fundamentals Of Engineering Thermodynamics, SI Version



Synopsis

Presents a comprehensive and rigorous treatment of the subject from the classical perspective to offer a problem-solving methodology that encourages systematic thinking. Noted for its treatment of the second law, this text clearly presents both theory and application. The presentation of chemical availability has been extended by a cutting-edge discussion of standard chemical availability.

Design applications and problems have been updated to include economic considerations.

Environmental topics have also been expanded and updated. The new version of Interactive Thermodynamics (IT) is a powerful windows-based software program that now includes equation-solver, printing, graphing, data retrieval and simulation capabilities.

Book Information

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"...excellent sources for thermodynamics undergraduateâ |" (The Aeronautical Journal, February 2007) --This text refers to an out of print or unavailable edition of this title.

Now with an even stronger pedagogical framework, Moran and Shapiro's Fifth Edition of Fundamentals of Engineering Thermodynamics (SI Version) presents a comprehensive treatment of engineering thermodynamics, enabling students to develop a deeper, more complete understanding of subject. Key features: Includes worked examples and over 1200 end-of-chapter questions. New Thermodynamics in the News items tie reports from the popular press, such as fuel cells, to concepts covered in the text. A strong problem solving methodology encourages readers to develop an orderly approach to problem solving, to think systematically and to reduce typical errors.

End of chapter material builds problem solving skills in three modes: Conceptual (Exercises: Things Engineers Think About); Skill Building (Problems: Developing Engineering Skills); and Exploration (Design and Open-Ended Problems: Exploring Engineering Practice). Supplementary material for students and lecturers is provided on an accompanying website. Design/Open-Ended Problems provide brief design experiences that provide opportunities to think creatively, apply constraints and consider alternatives. Thorough development of the second law, featuring the entropy production concept and exergy analysis, provides a state-of-the-art introduction to second law analysis. --This text refers to an out of print or unavailable edition of this title.

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