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Designed for use in a standard two-semester engineering thermodynamics course sequence. The first half of the text

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contains material suitable for a basic Thermodynamics course taken by engineers from all majors. The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs. The text has numerous features that are unique among engineering textbooks, including

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historical vignettes, critical thinking boxes, and case studies. All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical. Over 200 worked examples and more than 1,300 end of chapter problems provide the use opportunities to practice solving problems

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thermodynamics from its theoretical foundations to its applications in real situations. The thermodynamics presented will prepare students for later courses in fluid mechanics and heat transfer, and practicing engineers will find the applications helpful in their professional work. The book is appropriate for an

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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 results. Computer models created in TK Solver accompany each chapter and are

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(included as chapter-end exercises) will help the reader gain confidence for applying the principles of thermodynamics in real-life problems. Sufficient data needed for solving problems

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This book is a very useful reference that contains worked-out solutions for all the exercise problems in the book Chemical Engineering Thermodynamics by the same author. Step-by-step solutions to all exercise problems are provided and solutions are explained with detailed and

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extensive illustrations. It will come in handy for all teachers and users of Chemical Engineering Thermodynamics.

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promote greater understanding of the subject, supported by relevant property tables and diagrams are included along with a solutions manual.

Chemical engineers face the challenge of learning the

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and visualize thermodynamics. Highlighted examples show how the material is applied in the real world. Expanded coverage includes biological content and examples, the Equation of State approach for both liquid and

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vapor phases in VLE, and the practical side of the 2nd Law. Engineers will then be able to use this resource as the basis for more advanced concepts. With Applications to Chemical Processes

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