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fuels, and more are presented in detail and enhanced with practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software. A comprehensive, best-selling introduction to the basics of engineering thermodynamics. Requiring only college-level physics and calculus, this popular book includes numerous illustrations and graphs to help students learn engineering concepts. A tested and proven problem-solving methodology encourages readers to think systematically and develop an orderly approach to problem solving: Provides readers with a state-of-the art introduction to second law analysis. Design/open-ended problems provide readers with brief design experiences that offer them opportunities to apply constraints and consider alternatives. Mechanical Engineering Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This new edition of Borgnakke's Fundamentals of Thermodynamics continues to offer a comprehensive and rigorous treatment of classical thermodynamics, while retaining an engineering perspective. With concise, applications-oriented discussion of topics and self-test problems, this text encourages students to monitor their own learning. This classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics, heat transfer and statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering. Moran's Principles of Engineering Thermodynamics, SI Version, continues to offer a comprehensive and rigorous treatment of classical thermodynamics, while retaining an engineering perspective. With concise, applications-oriented discussion of topics and self-test problems, this book encourages students to monitor their own learning. This classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics, heat transfer and statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering. This edition is revised with additional examples and end-of-chapter problems to increase student comprehension. Written in an informal, first-person writing style that makes abstract concepts easier to understand, PRINCIPLES OF ENGINEERING THERMODYNAMICS transforms the way students learn thermodynamics. While continuing to provide strong coverage of fundamental principles and applications, the book asks students to explore how changes in a particular parameter can change a device's or process' performance. This approach helps them develop a better understanding of how to apply thermodynamics in their future careers and a stronger intuitive feel for how the different components of thermodynamics are interrelated. Throughout the book, students are encouraged to develop computer-based models of devices, processes, and cycles and to take advantage of the speed of Internet-based programs and computer apps to find thermodynamic data, just as practicing engineers do. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This text continues its tradition of setting the standard for teaching students how to be effective problem solvers. Now in its eighth edition, this market-leading text emphasizes the authors' collective teaching expertise as

well as the signature methodologies that have taught entire generations of engineers worldwide. Integrated throughout the text are real-world applications that emphasize the relevance of thermodynamics principles to some of the most critical problems and issues of today, including a wealth of coverage of topics related to energy and the environment, biomedical/bioengineering, and emerging technologies. Energy—its discovery, its availability, its use—concerns all of us in general and the engineers of today and tomorrow in particular. The study of thermodynamics—the science of energy—is a critical element in the education of all types of engineers. Engineering Thermodynamics provides a thorough introduction to the art and science of engineering thermodynamics. It describes in a straightforward fashion the basic tools necessary to obtain quantitative solutions to common engineering applications involving energy and its conversion, conservation, and transfer. This book is directed toward sophomore, junior, and senior students who have studied elementary physics and calculus and who are majoring in mechanical engineering; it serves as a convenient reference for other engineering disciplines as well. The first part of the book is devoted to basic thermodynamic principles, essentially presented in the classic way; the second part applies these principles to many situations, including air conditioning and the interpretation of statistical phenomena. Master the fundamentals of thermodynamics and learn how to apply these skills in engineering practice today with Reisel's *PRINCIPLES OF ENGINEERING THERMODYNAMICS, SI, 2nd Edition*. This edition's informal, first-person writing style helps make abstract concepts easier to understand. In addition to mastering fundamental principles and applications, you explore the impact of different system parameters on the performance of devices and processes. For example, you study how changing outlet pressure in a turbine changes the power produced or how the power requirement of a compressor varies with inlet temperature. This unique approach strengthens your understanding of how different components of thermodynamics interrelate, while demonstrating how you will use thermodynamics in your engineering career. You also learn to develop computer-based models of devices, processes and cycles as well as use internet-based programs and computer apps to find thermodynamic data, exactly like today's practicing engineers. The third edition of *Thermodynamics* provides an easily understandable presentation of classical thermodynamics that builds on the student's background of energy concepts first learned in physics and chemistry. The material is organized in a logical progression from the conservation of mass, the conservation of energy, and the second law. The engineering perspective is retained and a variety of familiar examples are used so that the student can appreciate how thermodynamics affects a broad range of subjects. The authors continue to emphasize a systematic approach to problem solving and that approach is used in all example problems in the text. This problem solving method provides not only a reasonable way to approach the task of solving thermodynamics problems, but it also will serve the student in other engineering and science disciplines. Each example is worked in detail, and particular attention has been given to the proper use of units and unit conversions in the solutions. Detailed explanations accompany the simplifications when the general equations are reduced to the forms that apply to special cases so that the student will gain a better understanding of the conservation principles as well as greater awareness of these powerful analytical tools. Examples address the

questions of which form of the conservation laws should be used and why certain assumptions can be applied to simplify the solutions. Believing that second-law analysis should play a major role in the analysis of engineering problems, the authors provide extensive coverage of the second law of thermodynamics. The development of the second law is similar to that used for the introduction of the conservation of mass and energy. The results of the second law are carried over into subsequent chapters where they are applied to thermodynamic systems such as power and refrigeration cycles as well as air-conditioning processes. Presents the results of the authors' independent correlation of all new experimental and all previously existing data on thermodynamic and transport properties of water, replacing the widely used Keenan and Keyes tables. The whole body of high-quality experimental data on liquid and vapor water has been faithfully represented by a single fundamental equation from which all thermodynamic properties can be calculated for any state. Tables are given in SI units. This edition replaces the International Metric Units edition published in 1969.

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