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the Wiley editorial department.

Throughout its previous four editions, Combustion has made a very complex subject both enjoyable and understandable to its student readers and a pleasure for instructors to teach. With its clearly articulated physical and chemical processes of flame combustion and smooth, logical transitions to engineering applications, this new edition continues that tradition. Greatly expanded end-of-chapter problem sets and new areas of combustion engineering applications make it even easier for students to grasp the significance of combustion to a wide range of engineering practice, from transportation to energy generation to environmental impacts. Combustion engineering is the study of rapid energy and mass transfer usually through the common physical phenomena of flame



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flows to better illustrate real-world applications Important new sections on stabilization of diffusion flames—for the first time, the concept of triple flames will be introduced and discussed in the context of diffusion flame stabilization

This manual contains the complete solution for all the 505 chapter-end problems in the textbook *An Introduction to Thermodynamics*, and will serve as a handy reference to teachers as well as students. The data presented in the form of tables and charts in the main textbook are made use of in this manual for solving the problems.

The focus of *Thermodynamics: Concepts and Applications* is on traditional thermodynamics topics, but structurally the book introduces the thermal-fluid sciences. Chapter 2 includes essentially all

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Material related to thermodynamic properties clearly showing the hierarchy of thermodynamic state relationships.

Element conservation is considered in Chapter 3 as a way of expressing conservation of mass. Constant-pressure and volume combustion are considered in Chapter 5 - Energy Conservation.

Chemical and phase equilibria are treated as a consequence of the 2nd law in

Chapter 6. 2nd law topics are introduced hierarchically in one chapter, important

structure for a beginner. The book is designed for the instructor to select topics

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