



Basic Thermodynamics

By B.K.Swati, B.V. Venkanna



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This book provides an in-depth discussion of the principles of thermodynamics. It focuses on engineering applications of theory and sound techniques for solving thermodynamic problems. The book presents the fundamental concepts of thermodynamics and describes the theory of work and heat. The text covers in detail the first law and the second law of thermodynamics with their applications. It also explains the concepts of entropy and availability and irreversibility. In addition, the book presents thermodynamic properties of pure substances, ideal gases and mixtures of ideal gases, as well as real gases.

This book is designed for undergraduate students of mechanical engineering, industrial and production engineering, automobile engineering and aeronautical engineering for their courses in thermodynamics.

KEY FEATURES

- Presents the text in a simple and elegant manner to enable the students to grasp the essentials of the subject easily and quickly.
- Covers all types of problems of various difficulty levels.
- Includes more than 300 worked-out examples and a large number of end-of-chapter exercises.
- Provides solutions to several model question papers at the end of the book.



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