



Applied Thermodynamics

B.K.Swati, B.V. Venkanna

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This text covers the application of thermodynamics by way of a simple, elegant and practical presentation that ties theory logically and rigorously with the design and application aspects of I.C. engines, combustion thermodynamics, gas power cycles, vapour power cycles, reciprocating compressors, refrigeration and psychometrics.

The text discusses the performance and working of thermodynamic cycles such as gas power cycles and vapour power cycles. The applications of these cycles to the study and analysis of I.C. engines, steam engines, gas turbines and power plants are highlighted. The book also presents a thorough analysis of the working principles of I.C. engines, reciprocating compressors, refrigeration, and air conditioning systems. The book helps students to develop an intuitive understanding of the application of thermodynamics by guiding them through a systematic problem-solving methodology. The contents of the book have been designed to meet the requirements of diploma, AMIE, undergraduate and postgraduate students of mechanical engineering, biotechnology, chemical engineering, automobile engineering, industrial and production engineering.

KEY FEATURES

- Focuses on problem-solving techniques.
- Provides an excellent selection of more than 300 graded and solved examples to foster understanding of the theory.
- Gives over 100 chapter-end problems with answers.
- Summarizes important equations at the end of each chapter.

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