



# APPLIED THERMOSCIENCES PRINCIPLES AND APPLICATION

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## KEY SELLING POINTS

- ◆ A large number of self explanatory diagrams and illustrations
- ◆ Multiple choice questions and practice problems included at the end of each chapter

## BOOK INFORMATION

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**Applied Thermosciences** is designed as a complete course text in mechanical, energy, aeronautical and environmental engineering. The text is comprehensive in its coverage, lays special stress on the basic concepts, the approach is systematic and logical and emphasis throughout is placed on the application of the theory to real processes.

Thermodynamics of fluid flow, principles of refrigeration, air-conditioning, heat transfer and harnessing solar energy has been discussed because they form an important constituent of applied thermosciences.

**Contents:** Basic thermodynamics; Thermo-mechanical cycles; Fuels and combustion; Steam generators; Steam prime movers; Condensers; Internal combustion engines; Compressors; Gas Turbines; Jet and rocket propulsion; Refrigeration and air-conditioning; Heat transfer; Thermodynamics of fluid flow; Solar energy

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