



# Thermal Engineering

By K. Soman

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## Thermal Engineering By K. Soman

Primarily intended as a text for undergraduate students of mechanical engineering, this book presents a clear and concise exposition on the principles and applications of thermal engineering.

Divided into 10 chapters, the book provides a comprehensive coverage on the fundamentals of thermodynamics and heat transfer; laboratory testing procedures for internal combustion engines (IC engines), working of gas turbines, refrigerators, and airconditioning systems. Each topic is treated in detail giving necessary empirical formulas to solve the practical engineering problems. The derivations such as efficiencies of energy conversion, testing of IC engines and air compressors, estimating combustion parameters, and enthalpy and entropy calculations are provided to add an analytical approach to the subject.

### KEY FEATURES

- Saturated with self-explanatory diagrams
- Provides unsolved problems to check students' comprehension of the subject
- Incorporated with Appendices comprising Steam Tables, Gas Tables and Standard pressure charts.

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