



Thermal Science

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A practical, illustrated guide to thermal science

A practical, illustrated guide to thermal science Written by a subject-matter expert with many years of academic and industrial experience, *Thermal Science* provides detailed yet concise coverage of thermodynamics, fluid mechanics, and heat transfer. The laws of thermodynamics are discussed with emphasis on their real-world applications.

This comprehensive resource clearly presents the flow-governing equations of fluid mechanics, including those of mass, linear momentum, and energy conservation. Flow behavior through turbomachinery components is also addressed. The three modes of heat transfer--conduction, convection, and radiation--are described along with practical applications of each.

Thermal Science covers:

- Properties of pure substances and ideal gases
- First and second laws of thermodynamics
- Energy conversion by cycles
- Power-absorbing cycles
- Gas power cycles
- Flow-governing equations
- External and internal flow structures
- Rotating machinery fluid mechanics
- Variable-geometry turbomachinery stages
- Prandtl-Meyer flow
- Internal flow, friction, and pressure drop
- Fanno flow process for a viscous flow field
- Rayleigh flow
- Heat conduction and convection
- Heat exchangers
- Transfer by radiation

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