

## **Table of contents**

- **Thermodynamic Concepts and Definitions**
- **Properties of Pure Substances**
- **System Analysis--First and Second Laws**
- **Control Volume Analysis**
- **External Flow--Fluid Viscous and Thermal Effects**
- **Internal Flows--Fluid Viscous and Thermal Effects**
- **Conduction Heat Transfer**
- **Thermal Radiation Heat Transfer**
- **Appendix**
- **Answers to Selected Problems**
- **Index**