



# Thermodynamics for the Practicing Engineer (Essential Engineering Calculations Series)

*Louis Theodore, Francesco Ricci, Timothy Vanvliet*

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**Enables you to easily advance from thermodynamics principles to applications**


*Thermodynamics for the Practicing Engineer*, as the title suggests, is written for all practicing engineers and anyone studying to become one. Its focus therefore is on applications of thermodynamics, addressing both technical and pragmatic problems in the field. Readers are provided a solid base in thermodynamics theory; however, the text is mostly dedicated to demonstrating how theory is applied to solve real-world problems.

This text's four parts enable readers to easily gain a foundation in basic principles and then learn how to apply them in practice:

- Part One: Introduction. Sets forth the basic principles of thermodynamics, reviewing such topics as units and dimensions, conservation laws, gas laws, and the second law of thermodynamics.
- Part Two: Enthalpy Effects. Examines sensible, latent, chemical reaction, and mixing enthalpy effects.
- Part Three: Equilibrium Thermodynamics. Addresses both principles and calculations for phase, vapor-liquid, and chemical reaction equilibrium.
- Part Four: Other Topics. Reviews such important issues as economics, numerical methods, open-ended problems, environmental concerns, health and safety management, ethics, and exergy.

Throughout the text, detailed illustrative examples demonstrate how all the principles, procedures, and equations are put into practice. Additional practice problems enable readers to solve real-world problems similar to the ones that they will encounter on the job.

Readers will gain a solid working knowledge of thermodynamics principles and applications upon successful completion of this text. Moreover, they will be better prepared when approaching/addressing advanced material and more complex problems.

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