

CHEMICAL ENGINEERING, CHEMISTRY, THERMODYNAMICS

## CLASSICAL THERMODYNAMICS OF FLUID SYSTEMS

This text explores the connections between different thermodynamic subjects related to fluid systems. Emphasis is placed on the clarification of concepts by returning to the conceptual foundation of thermodynamics and special effort is directed to the use of a simple nomenclature and algebra. The book presents the structural elements of classical thermodynamics of fluid systems, covers the treatment of mixtures, and shows via examples and references both the usefulness and the limitations of classical thermodynamics for the treatment of practical problems related to fluid systems. It also includes diverse selected topics of interest to researchers and advanced students. Four practical appendices deal with material balances and give step-by-step procedures and extended tables of parameters for calculating fugacity with the Virial and the PRSV EoS and calculating activity coefficients with the ASOG-KT group method.

Presents a concise structure of concepts, using simple nomenclature and algebra.

- Clarifies problems usually overlooked by standard texts.
- Uses examples to show the structure for solving practical problems.
- Includes diverse topics of interest to researchers and advanced students, including thermodynamics of flow of compressible fluids, activity of individual ions and elements of statistical thermodynamics. These topics give a coherent view of the authors' contribution to thermodynamics.
- The four appendices give detailed procedures and parameters for the practical use of equations of state and the ASOG-KT group contribution method. The Olivera-Ponchar table of PRSV parameters for more than 800 chemical compounds and the Smaling-Dorogi tables of interaction parameters for 43 groups are included.

### ABOUT THE COVER

The cover of this book features an image of the Galileo Thermometer. In the Galileo Thermometer, glass balls of different densities float inside a liquid-filled glass cylinder. The relative vertical position of each ball inside the cylinder depends on its density and on the density of the fluid which, in turn, is a function of temperature. Thus the dynamics of the set of balls in the cylinder is a function of the thermal state of the system—hence “thermodynamics.”

Vera & Wilczek-Vera

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# CLASSICAL THERMODYNAMICS OF FLUID SYSTEMS

## Principles and Applications

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# Elements Of Classical Thermodynamics

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