

Using the 1st Law Learning Objectives

At the end of this chapter you should be able to...

- Use properties of state functions and exact differentials to rearrange thermodynamic expressions.
- Use volumetric thermal expansion and isothermal compressibility coefficients to describe pressures of materials.
- Rearrange thermodynamic expressions so that they are expressed in easily measured or tabulated values.
- Use properties of state and path functions to solve thermodynamic problems.
- Describe the Joule experiment and the Joule-Thomson experiment and their importance to our understanding of the behavior of gases.