

Numerical Integration - Thermodynamics

The work produced by a constant temperature, pressure-volume thermodynamic process can be computed as:

$$W = \int p dV$$

Where W is the work, p is the pressure, and V the Volume. Compute the work as accurately as possible using Numerical Integration methods, as the volume changes from 0.5 to 11.

Volume (m^3)	Pressure (kPa)
0.5	336
2	294.4
3	266.4
4	260.8
6	260.5
8	249.6
10	193.6
11	165.6