

Aplicatiile primului principiu al termodinamicii

Pp. I: $Q = \Delta U + L$

	Transf. IZOBARA	Tranf. IZOCORA	Transf. IZOTERMA	Transf. ADIABATICA
Definitie				$Q=0$
Căldura (Q)				
Variația energiei interne (ΔU)		$\Delta U = uC_v\Delta T$		$\Delta U = uC_v\Delta T$
Lucrul Mecanic (L)				

$$Q = uC_p\Delta T$$

$$\Delta U = uC_v\Delta T$$

$$L = 0$$

$$P = \text{const}$$

$$Q = uC_v\Delta T$$

$$\Delta U = 0$$

$$L = uRT \ln \frac{V_2}{V_1}$$

$$V = \text{const}$$

$$Q = uRT \ln \frac{V_2}{V_1}$$

$$L = uR\Delta T = p\Delta V$$

$$L = -uC_v\Delta T$$

$$T = \text{const}$$

$$Q = 0$$