Fórmulas complementarias

Coeficiente de dilatación

$$\alpha = \frac{1}{V}(\frac{\partial V}{\partial T})$$

Sólidos

$$\alpha_L = \frac{dInV}{dT} \approx \frac{1}{L}(\frac{\Delta L}{\Delta T})$$

$$\alpha_V \approx 3\alpha_L$$

$$\alpha_V = \frac{dInV}{dT} \approx \frac{1}{V}(\frac{\Delta V}{\Delta T})$$

Procesos térmicos

Adiabático

$$\Delta W = -\Delta U$$

Socorico

$$\Delta Q = \Delta U$$

Sotermico

$$\Delta Q = \Delta W$$