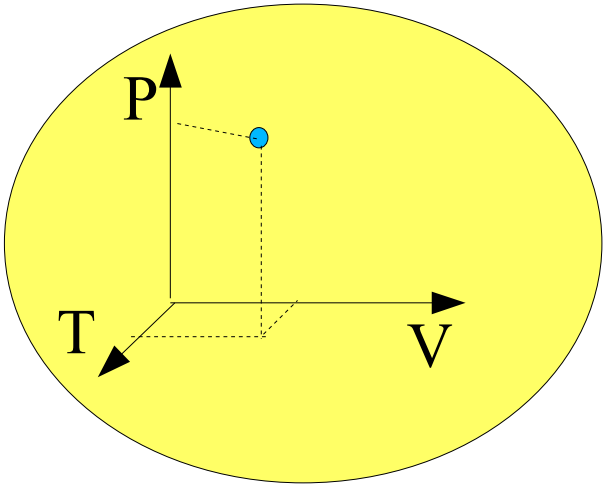
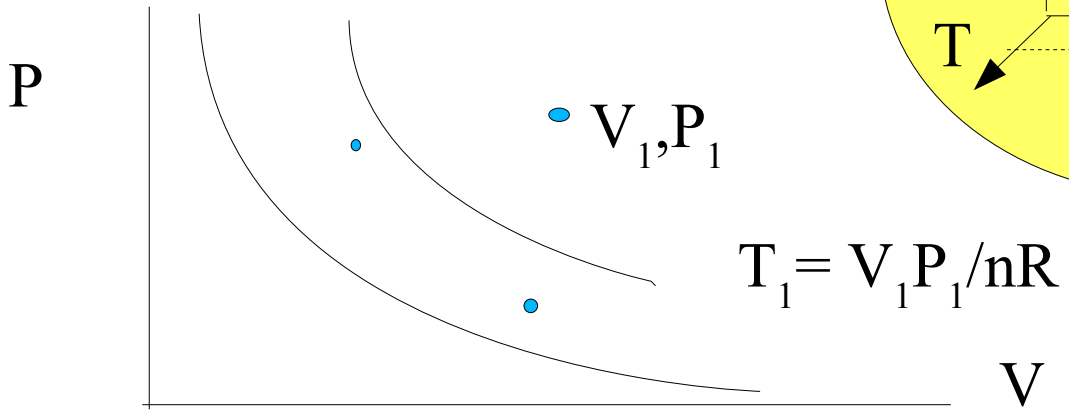
Termodinamica

Rappresentazione

Piano di Clayperon



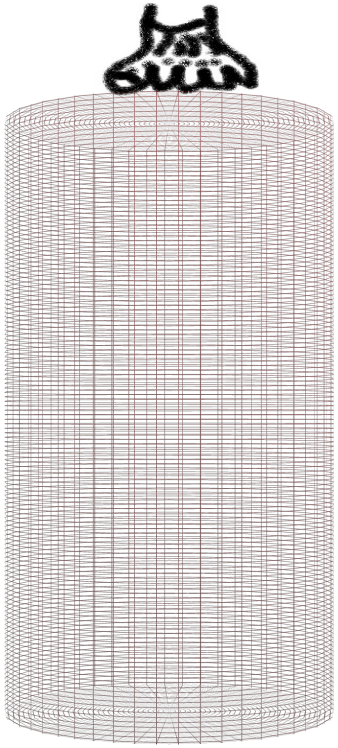


Pv=nRT *vale per stati in equilibrio termodinamico*

Termodinamica

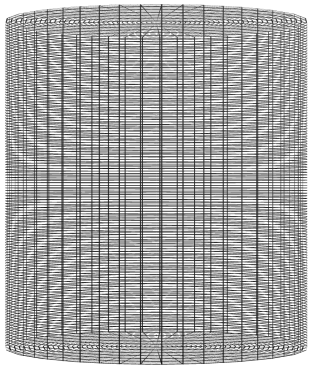
trasformazioni

V,P,T

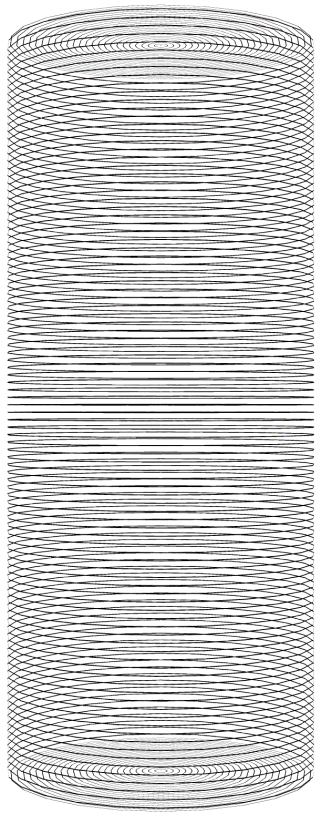


cresce

diminuisce

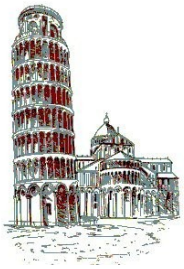


V',P',T'

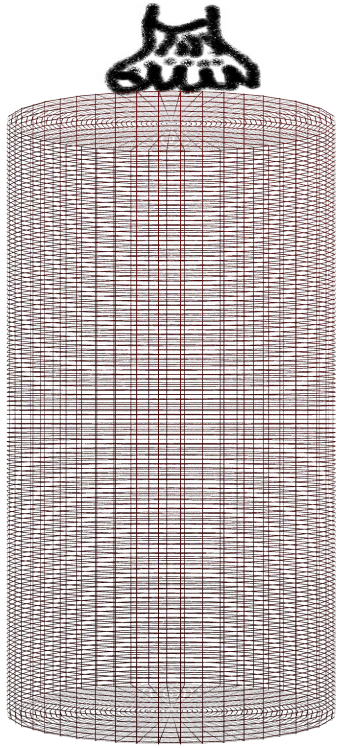


Termodinamica

trasformazioni

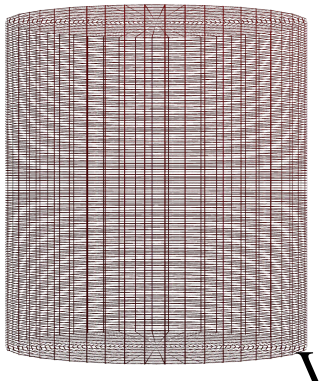


V,P,T

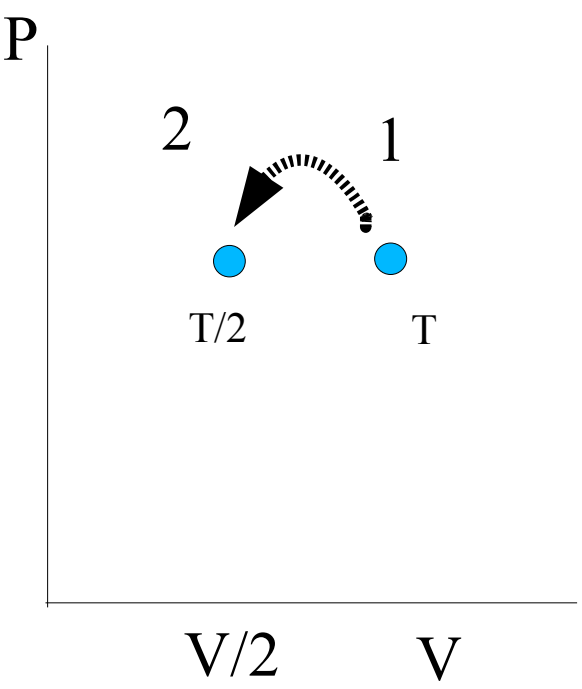


stati disomogenei

In frigo a T/2 !

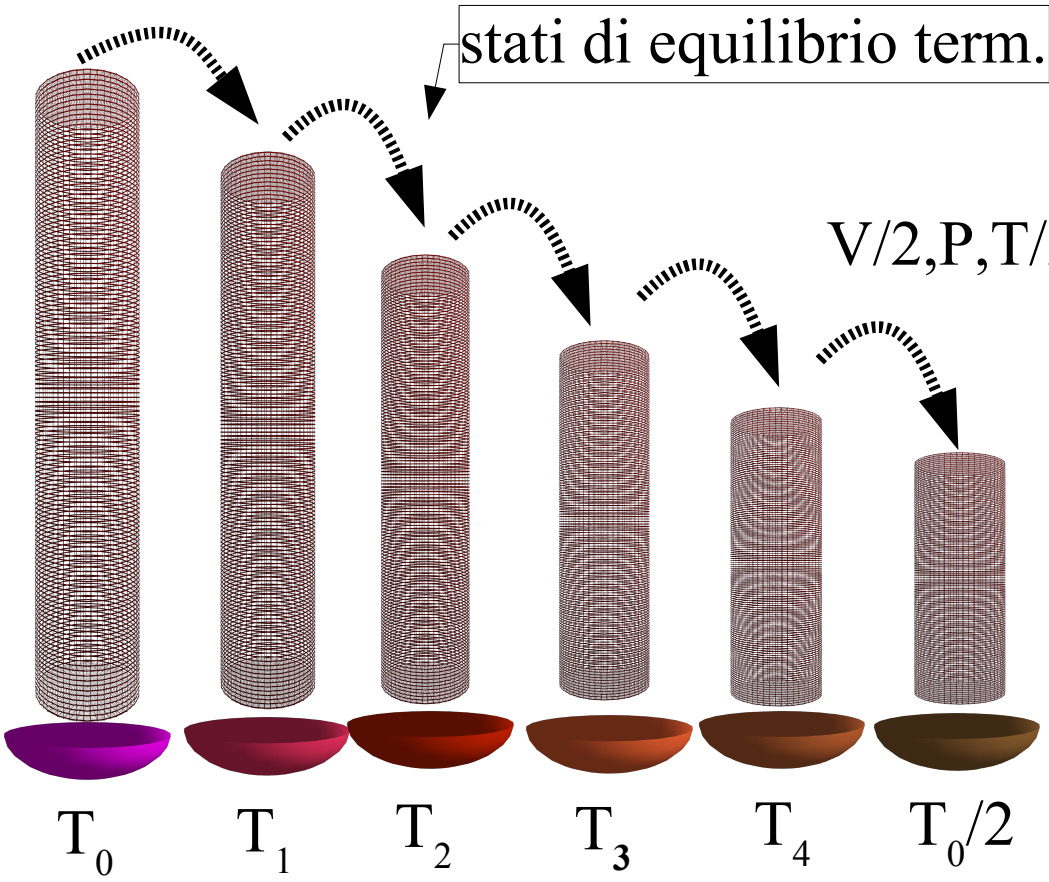


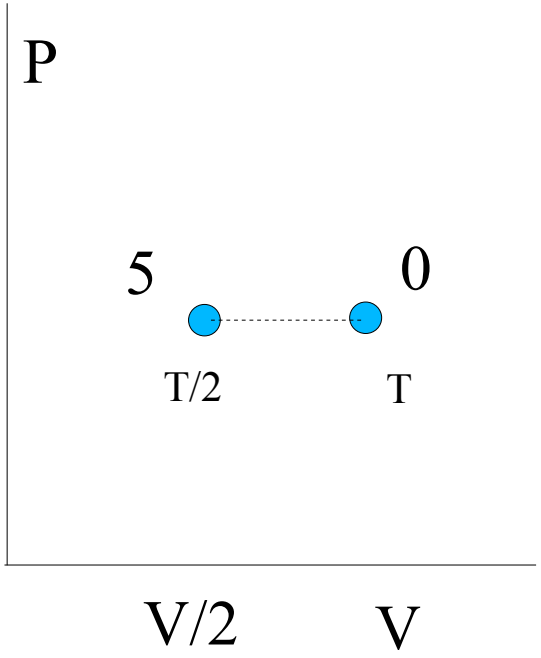
V/2,P,T/2



Termodinamica

trasformazioni





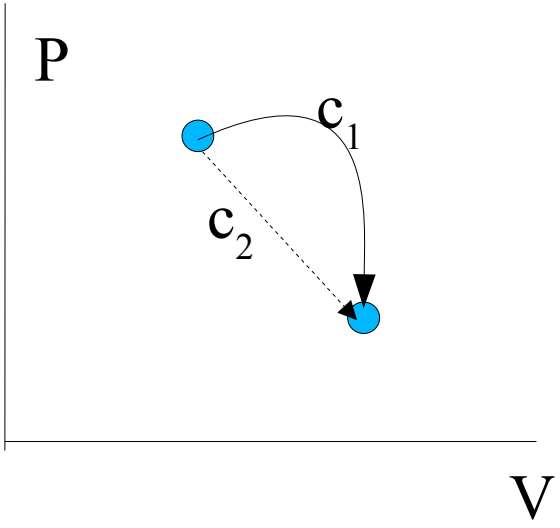
Termodinamica

trasformazioni

Attraverso stati di equilibrio

==> trasformazione reversibile

percorribile avanti e indietro



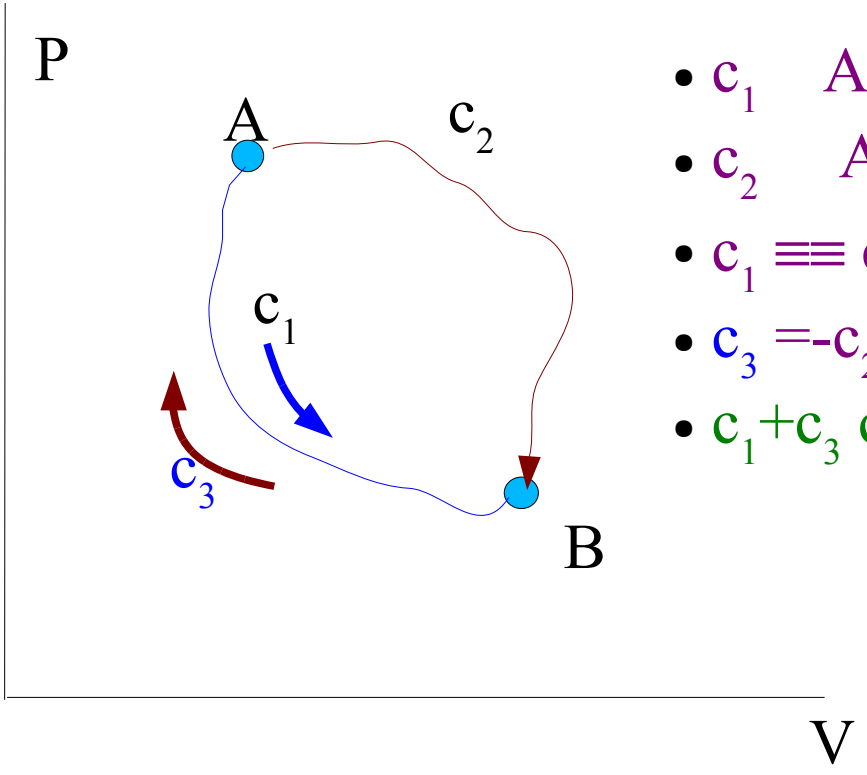
Attraverso stati disomogenei

==> trasformazione irreversibile

non si sa come tornare indietro!

Termodinamica

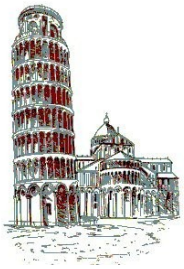
trasformazioni

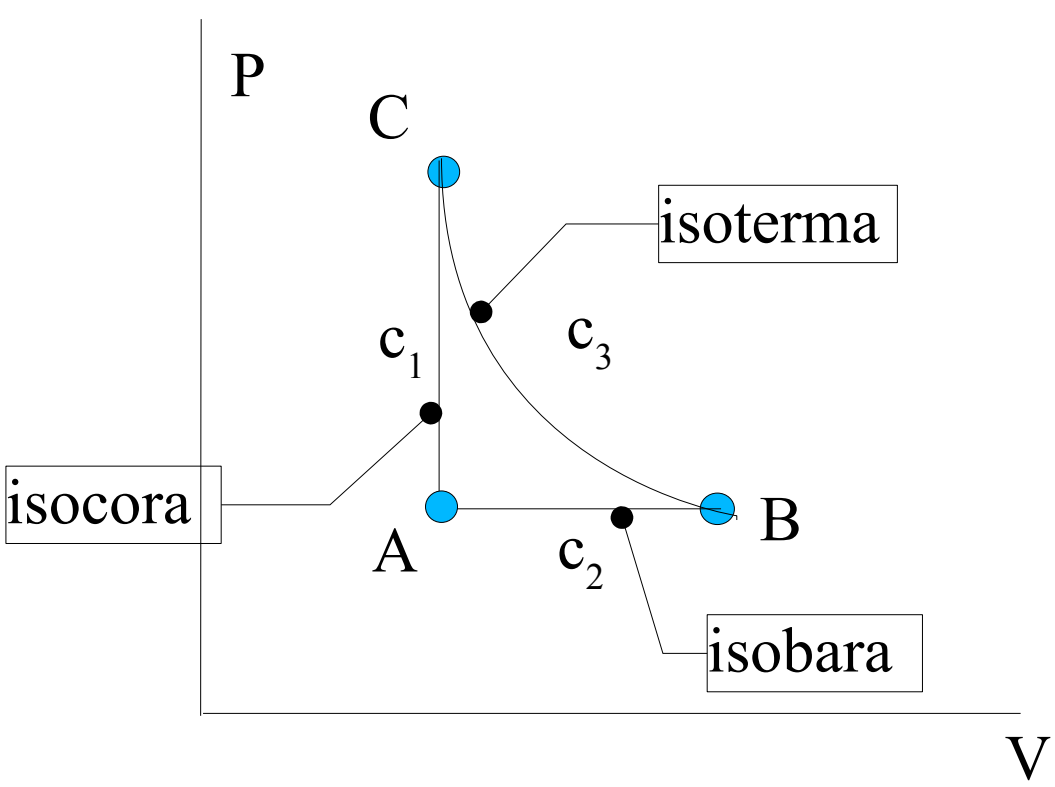


- c_1 A ->B
- c_2 A ->B
- $c_1 \equiv c_2$
- $c_3 = -c_2$ inverso
- $c_1 + c_3$ cammino chiuso

Termodinamica

trasformazioni





+
- adiabatica
- isolata