热烧落建. Any gas lim (PV)= Coust. = fct)
V=Th.

Afct)

For any f(T)= (FT) = ln (PT) For I deal gas. (=) I small enough, no moderate interaction REGIL PV-PT. PT = RT, PV=nRT.
R Oniversal gas Constani 8.314 Eml. K. PTM = nMRT, Mindealer Weight PU= NMRT PV= MRT, R= R= 29 1/21/21 P=PRT, Pv=RT. MAS 4232, P.P.T. V= PU, h=PU+PV; 知是为个分配至的状态多会、状态态的是大型 U=u(T, N), du=24/0T+ 24/00/ Ideal gas. Constant T, Compress a little bit. Will Whatlect energy, Juy 17 = 0. du= [or | vol T. = Cvol T.

if (v=Const. U2-41= Cu(h-11)

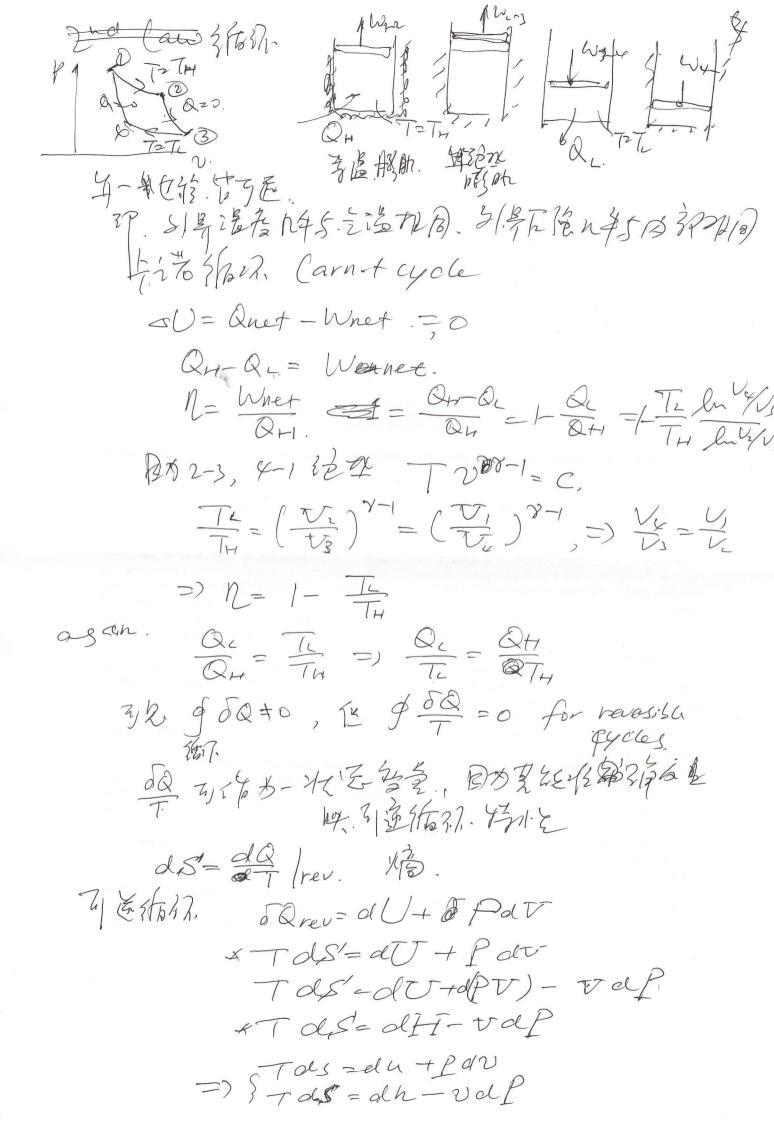
h=hGT,P) ( aleal gas alh= The aT+ Spladp. T same. slight Chang in P, Will not dh= Cp aT, Change h Cpaust. Mr-h, = Cp (Th-Ti) P=Const. 11/28 / Solid m2/K8 Cp=5.4126.8 Sp= 5. Kleg. C. Ep=21/P 3,1245, Cu= 301/2 h=u+Pv alh=du+a(PV)=du+ RdT CpolT = CvolT + RolT, => Cp = Cv+R. CP/CP = PP CV = PP CP = CP + RCy = CutR= 0.717+0.207=1 Kes.K. 经过程,从一个水色至一名一次是一元五堂代益 115 (an) du= dQ-PdV. 213 217 th - 72 m 21 du+PdV=0

21 dv=0

Elt CudT+ RTdV=0

Cu (L-)= l(L)  $\frac{C_{V}}{R} \int_{T_{v}}^{T_{v}} \frac{C_{V}}{R} \int_{T_{v}}^{T_{v}} \frac{dT}{T} = -\int_{0}^{t} \frac{dV}{V} = \int_{0}^{t} \frac{dV}{T} = \int_{0}^{t} \frac{dV}{T}$  $P_{2,V_{1}} = \begin{pmatrix} V_{1} \end{pmatrix}^{c_{1}}, \quad T_{1} = \begin{pmatrix} V_{1} \\ V_{2} \end{pmatrix}^{\gamma-1}$ broug in  $\frac{P_0}{T} = Const$ .  $\frac{P_1}{P_1} = \left(\frac{V_1}{V_2}\right)^{\gamma}$ . 413-12 0-dQ-PdV, dq-PdV=

 $\frac{1}{2}$ 



SdS= dy + fdv = Cv dT + Rdv ds= ah - y ap = epat - B df  $S(T_{2},V_{1})-S(T_{1},V_{1})=\int_{T_{1}}^{T_{2}}C_{\nu}\frac{dT}{T}+PS_{\nu}^{N}\frac{dr}{2}$ = CulnTi + Rluis, S(Tr, R)-S(T, P,)= Cylu Tr, - Rlu P, / Sentropic process Si=S, 0 = Culuty + Rlu V, The CV2 I P-R TVA-1= Const.

The Const.

T 大线不中出现了的色世强 W1-2,7,3/2 < W1-27/2 \$ 7/27/6/1. Whet 7. < Whet, 7, V. Qnet 7: < Q, Ty. Clausius & \$50. A.n., 22. C.7.4, &  $A = \int_{-\infty}^{\infty} \frac{1}{\sqrt{2}} \int_{-\infty}^{\infty} \frac{1}{$  $-\int_{1}^{1}\frac{dQ}{dt}+\int_{2}^{1}\frac{dQ}{dt}=0$   $\int_{1}^{1}\frac{dQ}{dt}+\int_{2}^{1}\frac{dQ}{dt}=0$   $\int_{1}^{1}\frac{dQ}{dt}=0$   $\int_{1}^{1}\frac{dQ}{dt}=0$ 13 29 DDW 3 5 July 3 3 1/2 . 6Q =0, 经生态安全了安全 7m2 812, 126