"SISTELLI ELERGETICI PER INGEGNETIA FISIES" 18/02/2019 1º ESENCITIO 1) OR t=00 A t=t= (ACQUA CINCONS NECTROTO A-C-O) PA + gta + NA2 = Po + gto + No2 + /Ac + /co PA = 1 atm (SERBEDIO ATUSSENCO) PO=1 atm (DETO)

NA = 0 m/s (SERBEDIO -> 00) ZA-70 = AZAO = 2 MYV (DETO) g dzao = ND2 + f Lac ND2 + f Loo NO2

Dac 2 + Doo 2 NOO=NAC=NO $N_{D} = \left[\left(\frac{3}{4} \Delta \tau_{AD} \right) / \left(\frac{1}{2} + \frac{1}{4} \frac{L_{AC}}{D_{AC} \cdot 2} + \frac{1}{4} \frac{L_{CD}}{D_{CD} \cdot 2} \right) \right]^{0.5} = 3,271 \text{ m/s}$ my = { NO TOO (POWERS MESSIES NE PRINO) M meng= m= St= = 5,7819 2) os t=t1= A t=tpine, nieuriusario (ACPLA CINCOLA MEI DE THAM ACE B-C IN PANALUELO, SI)

WISCELLA E PROSEGUE MELTHAND C-D PA+gta+NA = Po+gto+No)+ & LAC NAE + & LCO(2NAC)

S + gta+NA = Po+gto+No)+ & DAC 2 + & DCO 2 ESSENDO : TUBI IN // NAC = NBC = PNOO = 2 NAC NAC = [(3 Atao) / (2 NOWE + f (AC + f (Loo . 2))] = No= 2 NAC M2= 3 NOW Do = 0,752 MS Attine, nieur = { [W dai . h .]] - M nieur. 1 } /m2 = 24,340

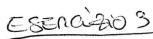
- TELBENSTURA FINALE

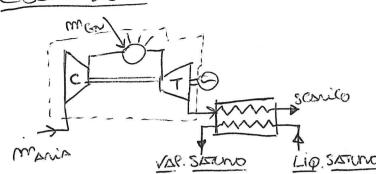
$$R^* = \frac{R}{MM} = 99,215 \text{ CV} = \frac{3}{2} \text{ N}^*$$
 $\text{CP} = \frac{5}{2} \text{ N}^* = 248,637 \text{ J}_{MK}$

$$S_2 = G_0 \ln \left(\frac{T_2}{T_1} \right) - N^* \ln \left(\frac{P_2}{P_1} \right) = -218 J_0 \qquad q_{1 \Rightarrow 2} = T \left(5_2 - S_1 \right) = -794 J_0$$

$$S_3 = C_P ln(\frac{T_3}{T_1}) - N^* ln(\frac{P_3}{P_1}) = -55,1 J g (2>3) = C_P(T_3-T_2) = 7,4 g (7) g$$

$$m = \frac{9}{9} = 100,875 \%$$
 $V_{1} = m \frac{n^{*}T_{1}}{P_{1}} = 6,47 \text{ m}^{3}$





PEC = Pin 7- 2- = 1,13 MW/2 m Gas, Scauco = m Gut maria = 6,54 /y

BEXP = 6,7 Tin=1100°C 0= 1-1 = 392749 G= 1,08 KJ/le/K Cv= G- R MM# =

· CACCORO TEMENSTURS DI SESSURO

Transis = mine Sher + Tow, EXP = 328°C MGAS, SONIGO · CPGAS SONIGO

Esencuio 4

GNADINO DI TEURENTINO ES LEVEUNDE TOOZ-TOOZ

AL t=00 a TEURENATURA DELLA SONDA E UGLALE A TOOL= T(t=0).

. APPLICO C'APPROCCIO A PARALLETINI CONCENTINATI (VETUZICA A VALLE)

$$\frac{O}{O} = \frac{T(t) - T_{\infty,2}}{T(t=0) - T_{\infty,2}} = \frac{T(t) - T_{\infty,2}}{T_{\infty,1} - T_{\infty,2}} = \ell$$

Bi =
$$\frac{h d}{K}$$
 = $\frac{h d}{K}$ = $\frac{Bi K}{d}$ (continuo Termo)

oreno para para Vencira

 $\frac{h d}{K_{\text{Fairor}}}$ = $\frac{2+0}{K_{\text{Fairor}}}$ = $\frac{100}{K_{\text{Fairor}}}$ = $\frac{100}{K_{\text{Fairor}}}$ = $\frac{100}{K_{\text{Fairor}}}$

$$\hat{m} = \int V \frac{D_{7000}}{4} W = 5,71.10^{-2} M_{5}$$