

C+ around recording loop 8 points 223 HW#5 - 2000 0,55 0,000 2in 0,000 Wino 1 → ms (ls-le) + mp (l2-l3) = 0 → mp = le-ls
ms l2-l3 6 6 As = AB (P=1 otm, T=20°C) = 0.084007 Mg/kg As = Ag (P-1 sto), T=35°C) = 0.14662 Mg/Ag 0 mip = 0.0286, =7 ms = mp => ms = 34,965 mp 0.0286 mp=0.0286 ms 0 1 • • 0

Mp= Rin- Routs

Air-Routs

Air-Routs

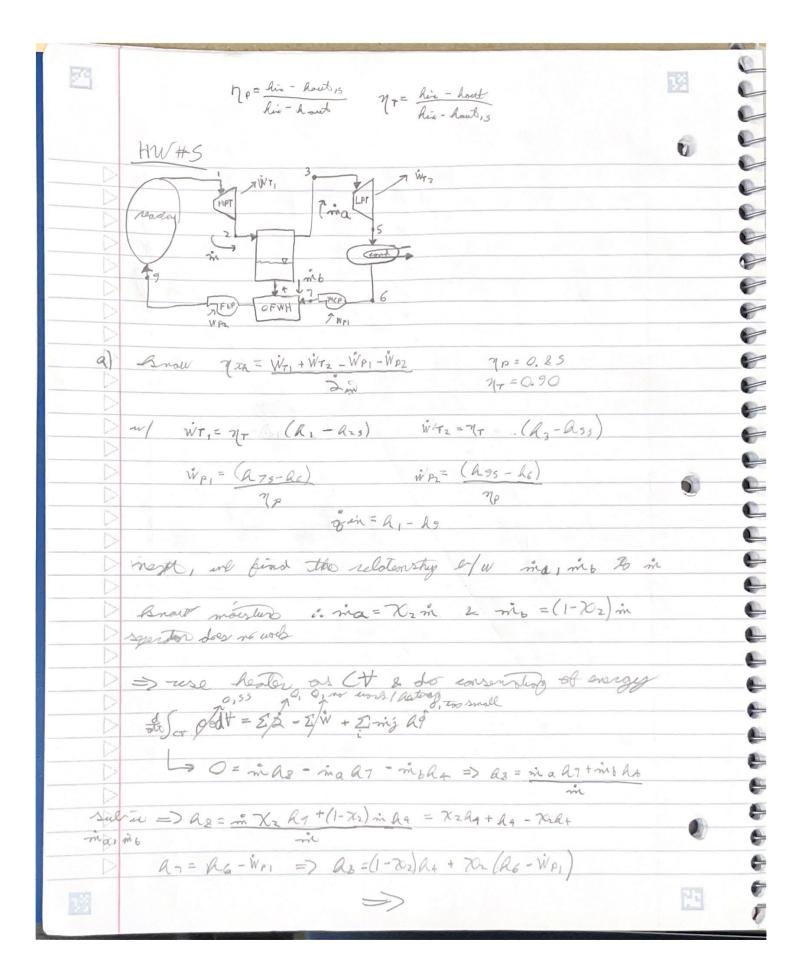
Air-Routs 11W#5-1000 producing saterated or supertantal steam @ 293°C = 566 K conderring steam is 33°C 1) yet = West all results tabulated @ the end for birst graph: Zin = m (A, - A4) Wnex = W_T - WP WT = m (a1-a2) Wp = = (Ry - Rsi) => $\eta_{xx} = \frac{1}{\pi(A_1 - A_2)} - \frac{1}{\pi(A_2 - A_3)} = \frac{(A_1 - A_2) - (A_3 - A_3)}{(A_1 - A_3)} = 0.38175$ 0 - use nelST for data. point 4) Solurated liqued, P4= 7.7725 MPa, T4=293°C a ded ded e Q= 1,306.3 BO/Ag point 1) sot rapor, P=P4=77725 MPa, T4=2 93°C a1=2762.0 AS/Ag , 51=5.7605 g/g·K point 3) sat legisl, P3=0.0050354MPa , T3=33°C R3=132.27 BB/Bg, S3=0.47782 g/g/K point 2) minds, 52 = 5, = 5.7605 g/g·K, P2=P3 = 0.0050354 MPa PPPPPP => Ag=2561 AD/Ag , Sg=2.3913 S/gK Ag=A3=138.27 AJ/Ag 0 70 = (52-50) = 0.66755 => QZ= Q3+ X (Qv-Q3) = 1755.575 by/leg 5g - Se

35 21 HW#5-LOND point 3') P31=P4, 551=5, R31=146.04 bg/bg 7×4= (h, - az) - (231-23) = 0.38/76 the steam rate in 3600 = 3600 = 3.60485 mg stead -graph Z we pox Steam for Lots point 9) T=293°C, Q4=1305.259 3/13, 1=3. 1874 3.K point 1) T=293°C, A=27.62.192 Blbg, 1=5.7615 8/p.K 2000 3) T3=33°C, A3=967.374 Balley 153=3.1874 Blg.K K3=0.34242 point 2) Tz=T3, 2=1755.04311 Bl/bg, 5z=51, 70z=0.66749 0 Sept (T2) Z from py X Steam Deg 2 2g - 2g Sog, 2000 (T2) -Ag. sat (Ta) 3 from py X Stem Alg = Ag- Ag Ag, sot (T2) X2=52-16, X3=53-26, R2= R6+ X2 R6g. a3 = a6 + X3 agg stop gen rate = 3600 = 3600 = 5.37907 736=0.95936 W (a-R2)-(A4-R3)

HW45-ento graph 3 data from py X Stain 24) 2=5 MPa, A4 = 1154.50 2 Blag D5) Ps = P4, As = 2794.227 Blag	
24) 2=5 mPa, R4=1154.502 89/Ag	
95) Ps=P4, As=2794.227 Bd/Ag	
S 13 4 / 25 - 1.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
p) P=P+ , T=293°C , A=2902.507 BB/Bg, 5=6.1703 8/g·K	
	1
P3) T3=33°C, A3=137.6525 1/2 153=0.4759 2/g·K	
€ 22) 56=53, sg=5g1500 (7=33°€), seg=sg-se	
A = a, h = A , rd (T=33°C), A = A & - Ag	
52=51, K2=52-19 = 0.71912 Az=A6+22 163=1820.14714 4/A	2
€ O	
P3') P31 = P4 , S31 = S3, A31 = 142.66288 18/Ag	-
my met = (a,-a)-(a31.13)=0.368629	
Ain 11-23'	
steam au ruto = 3600 = 3600 = 3.538. Sg steam	
W (A,-Az)-hz,-A4) BWe Az	

part a answers	
graph 7 th steam go note Experte	
0.38175 3.60484	
9 oph 7 th stead on rate [ag stead] 1 0.38175 3.60484 2 0.45936 5.37904 3 0.36862 3.53858	
3 0.36862 3.53858	
7	3

HW# 5-cont ne= 1-Tc = 33+273 = 45.936% Ta 293+273 all eyeles have the same earnot efficiency. tycle 2 has the carnot efficieny & in the most 6 effected the Read added is the difference in hiso 2 added [AS/BA] 3'->4 1455.70 1160.26 1456.93 1016.84 1748.00 0 0 egele I have the advartage of a moderately high steem gen rate & new, but is not physical we the outlet Temp is saturaled Team 0 lycle 2 has the evert you a steam generation rate, ent a not real as it is a cornol uple lysle 3 is the best thate of it is the most realist, versitile & slows the most work done by the turbing, but is also the learn efficient.



HW#S-LAD Brow Ag = he - WPZ, so find in peglisteant => WT, = 260. 4957; WTZ = 7.92.213 & B8/Ag WP, = 1.608 WP2 = 6.528 = n= 0.33911 6) ret all effeciences & 1 => [n =0.37202 all sade san be found on gither com/jspecht3/classes/tree/main/apre 449