	Date	
	SHAHBAZ LATIF CHENIGH1032	
	1/15	
	$ \frac{\hat{V}}{V} = \left(\frac{2MP_a}{V_g}\right)^{1/5} \left(\frac{(0.1m^3)^{1/5}}{V_g}\right)^{1/5} $ 10 MP _a	
	$\hat{V}_{2} = \left(0.2 \times (0.1)^{1.5}\right)^{1/15} m^{3}/kg$	
	$v_2 = (0.2 \times (0.1)^{1/3})^{1/3} \text{ m}^3/\text{kg}$	
	1	
·	$\hat{V}_{2} = (0.2 \times 0.0516)^{0.667}$	
	^ 3/	
	$v_2 = 0.0342 \text{ m}^3/\text{Kg}$ $v_3 = 0.0342 \text{ 0.0342}$	
	Now, 0.0342 0.0342	
	$\hat{\omega} = - \left(P_E d\hat{v} \right) = - \left(P_A d\hat{v} \rightarrow i \right)$	
	0.1.	
17)	11.5	
	$p\hat{\mathbf{v}}^{\prime\prime} = P_{\mathbf{v}}\hat{\mathbf{v}}^{\prime\prime}$	
	2 1.5	
	P = P, V, S	
	Ŷ1.5	
	$P = \frac{2MPa}{10.1 \text{ m}^3} \frac{1.5}{1.5}$	
	$=\frac{2\pi i a}{(ig)} \left(\frac{1}{i} m^3 \right)$	
	[(o)] (v m)	
	P = 0.0632 MPa	_
	$\frac{1}{2} = \frac{0.5}{1.5}$	
	Putting the value of Pin eq. (i)	
	0.0342	
	$\hat{\omega} = -(0.0632)$	
	↑ 1.5 ↑ 1.5	
	0.1 V .0.0342	
	W = -0.0632 1 Page	
	= 0.5 V ^{0.5}	
	0.1	

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SHAHBAZ LATIF	CHEN19111032
10	2 (1
$\hat{\omega} = 0.063$	
0.5	(0.0342)0.5 (0.1)0.5
$\hat{\omega} = (0.1264)$	1/2 2451 000 3
w = (0.1264)	(2.245) MPa m3 Kg
w = 0.283	o mp m³ rg
20	rg
w - 0.2830 /	mpa m3 1000Kpa KN ("Nm=J)
	Kg IMPa Kpans
	The Control of the Co
$\hat{w} = 284$	KJ
	Fg
Heatv	$\frac{1}{9} = \frac{2}{3}$
we know that	
^	$\hat{U} = \hat{q} + \hat{\omega}$
9	$i = \lambda \hat{n} - \hat{\omega} \longrightarrow i\hat{i}$
Du =	$ \begin{array}{ccc} &=& & & & & & & & & & & \\ &=& & & & & & & & & & & & & & \\ &=& & & & & & & & & & & & \\ &=& & & & & & & & & & & & \\ &=& & & & & & & & & & & & \\ &=& & & & & & & & & & & \\ &=& & & & & & & & & & & \\ &=& & & & & & & & & & \\ &=& & & & & & & & & & \\ &=& & & & & & & & & & \\ &=& & & & & & & & & \\ &=& & & & & & & & & \\ &=& & & & & & & & & \\ &=& & & & & & & & & \\ &=& & & & & & & & & \\ &=& & & & & & & & & \\ &=& & & & & & & & \\ &=& & & & & & & & \\ &=& & & & & & & & \\ &=& & & & & & & & \\ &=& & & & & & & \\ &=& & & & & & & \\ &=& & & & & & & \\ &=& & & & & & \\ &=& & & & & & \\ &=& & & & & & \\ &=& & & & & & \\ &=& & & & & & \\ &=& & & & & & \\ &=& & & & & \\ &=& & & & & \\ &=& & & & & \\ &=& & & & & \\ &=& & & & & \\ &=& & & & & \\ &=& & & & & \\ &=& & & & & \\ &=& & & & \\ &=& & & & \\ &=& & & & \\ &=& & & & \\ &=& & & & \\ &=& & & & \\ &=& & & & \\ &=& & & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & & \\ &=& & \\ &=& & & \\ &=& & & \\ &=& & \\ $
At stat 1	2
	= 2MPa
	by linear interpolation
	- xinear pour lov
At 2mPg # 0.	= 0.00/2 m3/ Kg , V = 0.0 P96
1 /	m ³ /
Temp (C)	Q (m/kg) heg
212.4	• /
- 12· Y	0.0996
- 27	0, 1
225	0.1038
	6
	(3)

SHAHBAZ LATIF	
Jimmone Cirrii	CACIVITITUSE
By linear i	saterina Patina
2 2110001	100 1 130 DEC 1011
T = 21	3.6%
	<i>y</i> 6 C
	Temp. diff.
	225 - 212,4 = 12.6
	Specific velocity differen
	0.10 70 = 0.017 6= 4.2 818
Now at State	1 P = 2MP
	T = 213.6°
	$T_{1} = 213.6$?
u, (KJ/kg)	Te
2600.3	212.4
<i>1</i>	
	213.6
2628.3	225
By linear inter	
Ĺ	$N_{1} = 2602.97 \text{ KJ/kg}$ $P_{2} = 10MP_{4}, V_{2} = 0.0342 \frac{\text{m}^{3}}{\text{kg}}$
At state 2,	P = 10MP 1 : 0.0342 m3
Ü ₂ K	J/Kg N2 m3/Kg
THE STATE OF THE S	8,245.8 0.0328
	û. 0.0342
3	144.5 0.0356
- f.	
By linear int	ergolotion blu û q v we get 3095.15 KJ/Kg
û, =	3095.15 KJ/Kg
	(4)

C	CHAHBAZ LATIF CHEN19111032
)	THUMBLE CHILL CHENTINGS'4
	$\Delta \hat{\mathbf{u}} = \hat{\mathbf{u}}_2 - \hat{\mathbf{u}}_1$
-	<u> </u>
	12-0- 1- 21-207 \ V.T
	= (3095-15-2602.97) KJ
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
-	Aû = 429.18 KJ/kg Putting values of sû z w in eq ii,
_	Putting values of Du z w in eq 11,
_	
	$q = bu - \omega$
	a^ /1.02 .0 202 02 KT/
	9 = (492.18 - 283.80) KJ/kg
	g = 208.38 KJ/169
T	7 - 2 - 3 - 3 / 1/9
1	
I	Q-No-11-
	i) System:-
1	A system is the set of
1	substances and energy that is being
	substances and energy that is being studied. It, for example, reactions are
	occuring in a jar, everything inside the Jar is the system and everything outside the jar is the surroundings. ii) Surroundings:
	Jax is the system and everything
	outside the jar is the surroundings.
	") >uxxounclings:
	Surrounding a thermodynamic system. The surrounding is everything else that is not the d. system defined.
	The curvations is over the order of the
	in not the d. bystem do Rined.
	$\overline{\mathfrak{S}}$

Wide Sala	Date	-0.5
	SHAHBAZ LATIF CHEMI9111032	7
	Specific volume: $\hat{V} = ?$	
	Specific Internal û =?	
	energy.	
	To bind specific volume we have	
	find First dryness fraction 'x'.	
	7 - 1	
	From saturated Steam table @ 7698 and	
	From saturated Steam table @ 7698 and 2600 KJ specific enthaly, we have	
	Specific entrapyAt lequid=he = \$97KT	*
	, 0	
9	Specific enhalpy vaporization = 2067 KJ	
	h' = 2600 KJ	
*	the state of the s	
	dryners fraction r	
	h = hc + x hcg	
	7 70	
	u = h - hg	150
	hf3	
	x = 2600 KJ/kg - 691 FJ	
	2067KJ/Kg	
1	d = 0.921	
	ror specific volume u	
	$\sqrt{1 = \chi V_0^2}$	
	From steam table @ 7 har and rooks	1.1
	of h	
and a second		-
	,	7

A September 1990	Date	
	SHAHBAZ LATI'F CHENIGIII032	,
	Specific rolume, $\sqrt{3} = 5.2728 \text{ m}^3$	
	163	
	J = (0.921) x (0.2728 m) Kg)	-
	v = 0.2515 m Kg.	
	Ke.	
	for Specific Internal energy	
	From steam table @ 7 bay and 2600 KJ of	
	ût = 696 KJ	
	F3	
	Ug = 2573 KJ/Kg	3 N
	V	
	Ω = (1-η) Ω + η Ûg	
	= (1-0.921)69616J+(0.921)(2513KJ)	
	= FT HT 22/FET	
	-) FJ + 2365 EJ 128	
	$\hat{U} = 2420 \text{KJ/kg}$	
	6	
	$e - h$ $\binom{8}{}$	
		37
2 1		
14-5-1 14-5-1		