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Roll no: CHEN19111030

DEPARTMENT: CHEMICAL ENGINEERING

Topic: Mid term Examination

SEMESTER: 3<sup>rd</sup>

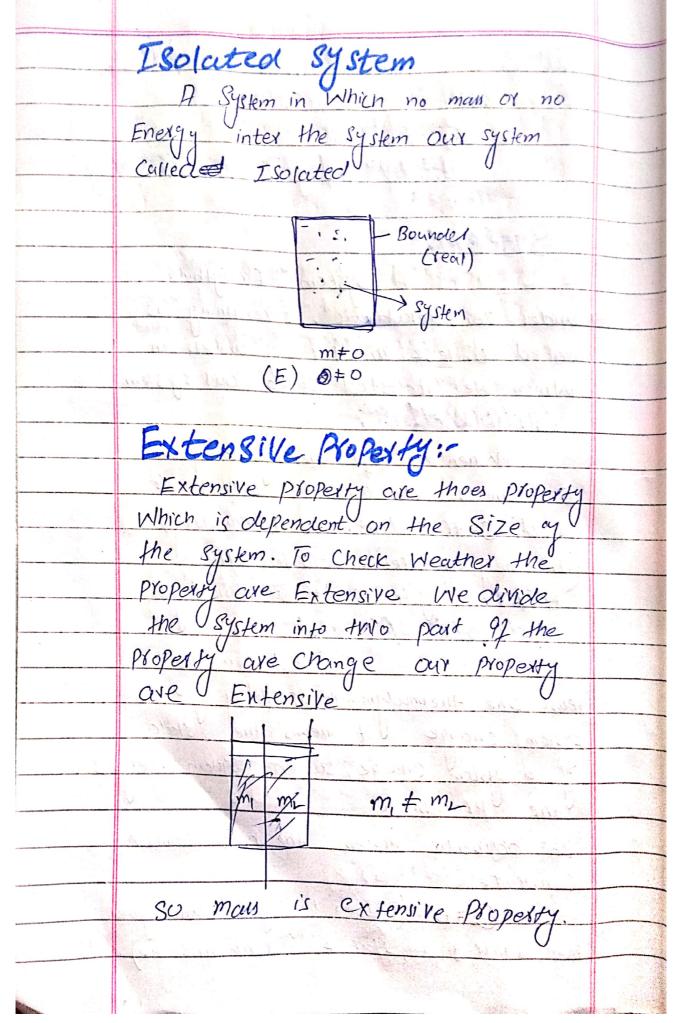
Submitted date: Friday, November 27,2020

Submitted to: Dr. Aamir Alaud Din

Khawaja Fareed university of engineering information technology

Full text: 351

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	Name Umair-Ul-HAO.  Roll No CHENIGIIO30  Semester 3
	ROII NO CHENIGIIO30
	Semester 5
	CHEMICAL ENGINERING
	System:
	A System " Everything.
	under Consideratiatic". Everything is
	Called universe. The Part of univers in
	Which We interested called out system.
	Surfounding -
4	When We left the System from Our universe the remaining universe is
	Our universe the remaining universe is
	Called Surrounding. JH soundery
	(Imaginery and real) Seperat the
	System and Surrounding
	HOIDOUTE PIOCES
	When at
	least one thermodynamic property as a
	System change lit means the state -
	by a system change, so the system undergoes
	the Process. U
	In adibatic Process the heat Yemcin -
	Consteint =
	Q=0 (When the system undergoes -
	From State 1 to Stat 2 Q remain Same).



## ALON02 BE

Griven Data

Fiven Data.

$$P = 7bal$$

$$\hat{\mu} = 2bookJ/kg$$

$$\hat{v} = ?$$

$$\hat{v} = ?$$

At Steam labble and 7(bal) Makeure =7 OUT Steam are Saturated Steam Labble and Contain some Water Vapour Content

We Find dyness Fraction

X = ?

B h = h + x h = f So

$$\hat{V} = \times \hat{V}_{g}$$

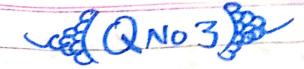
$$0.9.1(0.2728)^{m_{eg}^{2}}$$

$$\hat{V} = 0.2511 \text{ m}^{3}$$

calculat

internal Energy

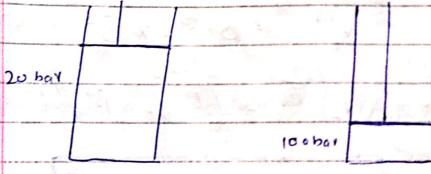
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	U = 696 KJ + O.GH (1877)KJ	
	1 = 696 KJ + 1728.717 KJ Kg Kg Kg Kg Kg Kg Kg Kg	
	Kg Kg	
	Charles A Service Serv	
•		



$$man = m = 10.0 \text{kg}$$
  
 $Pressure = P = \sqrt{20 \text{ bar}}$ 

## Solution: -

INE have reversible process and

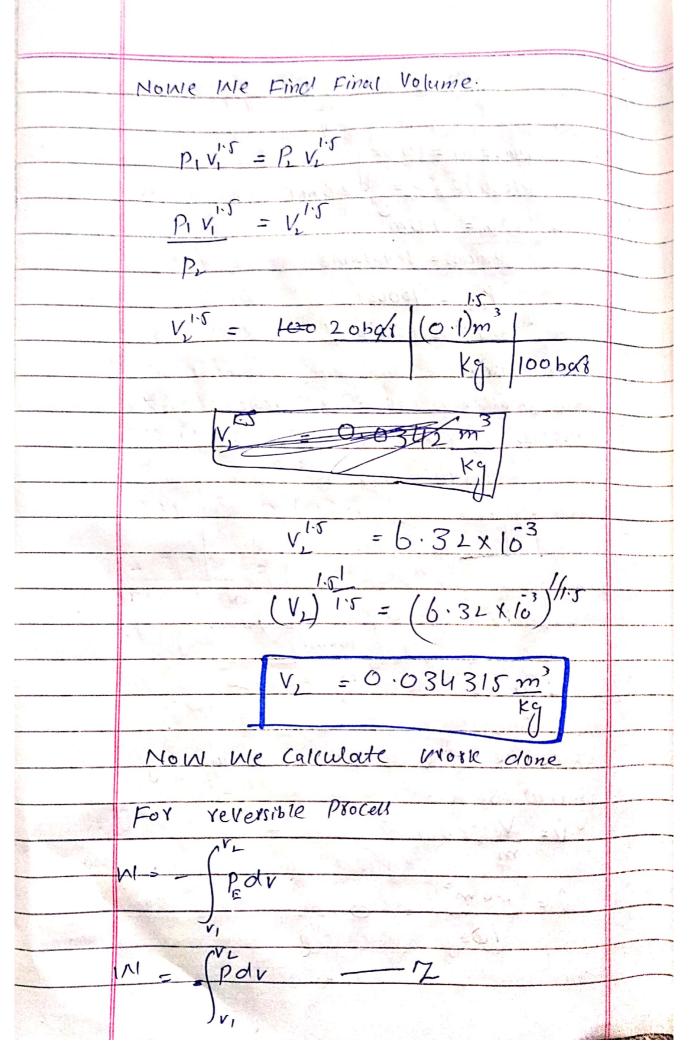


State 1 Statz

First We Find Specific Volume of initial State.

$$\hat{V} = \frac{V}{m}$$

$$\hat{V} = \frac{1.0 \, \text{m}^3}{10 \, \text{kg}} = \frac{0.1 \, \text{m}^3}{\text{kg}}$$



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	So by ideal gaslam	
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	N.A.	Control to the second second second second
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	6, V <sup>s</sup>	
	- 0.0 W	
	M=2p, V's (-1) (Direct Step)	
	VS	
		e de la composition della comp
	W- >p, v'15 [] - ]	en e
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	For initial temperature Me Poole	
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	T('C) V("Kg)	
	212.4 0.0996	
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2628 225	
4-2600 - 213.6-212.4	
2628-2600 225-212.4	
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K.J.	
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WELLUMIB-2833) !	J
	g
9 = 208 38 KT	<b>↓</b>
39	