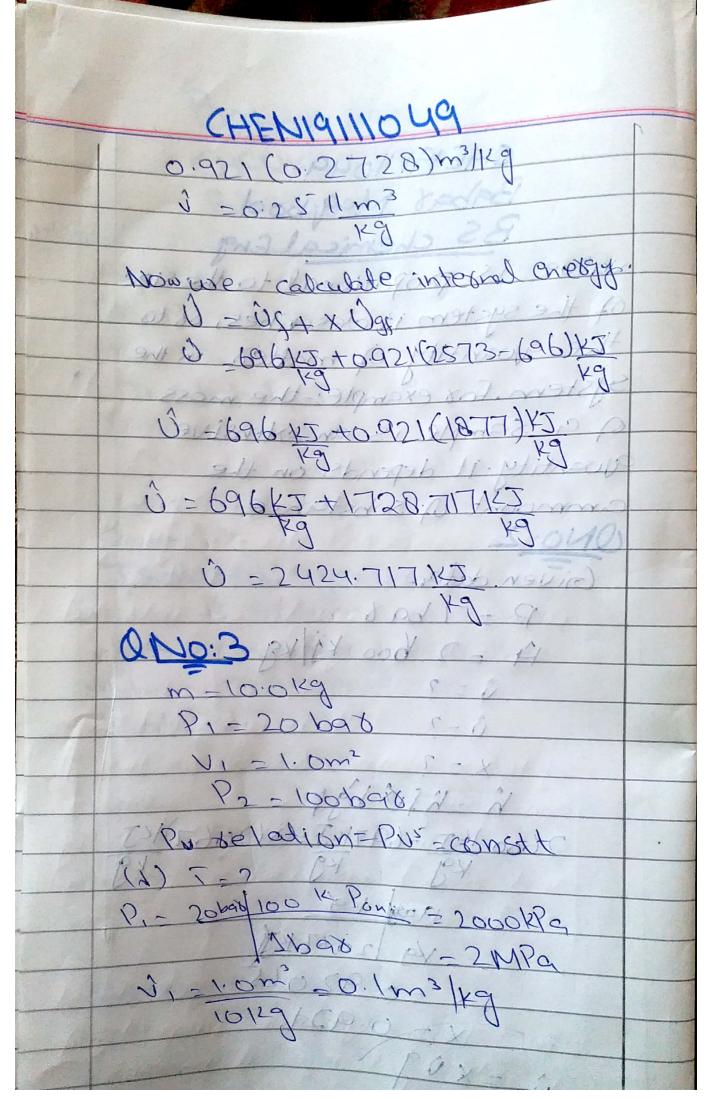
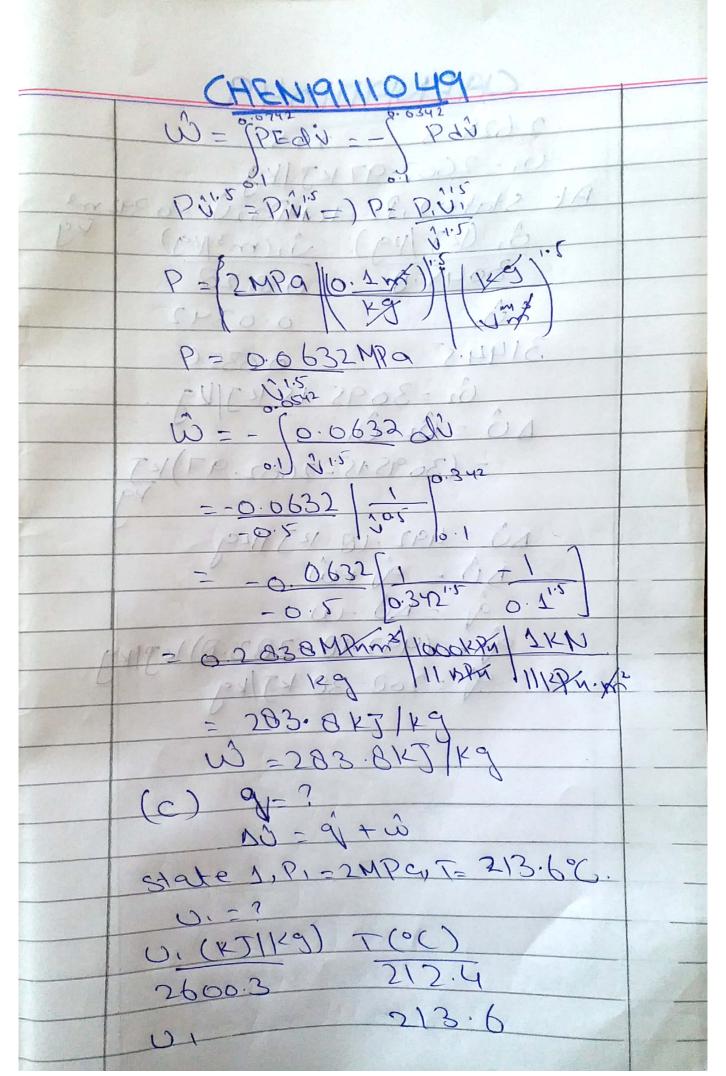


Babar Magbook CHENIGINOUS BS chemical Eng A Engineering 3th semitter the state of a system change. Sorthe system undergoes the process Inadiabatic process the heat temain constant -0=0 (when the system undergoes from state 1 to state 2 0 temain Saide Jit " ila tosslamas & store Isolated system - ballo 21 hatestry A system in which ino mass or no energy inter the System. Our system called Tsolated vill · 1 . . Bounder (E) 070 dans love 2900 ya DitodibA Extensive property:-An extensive property is a physical Avantity whose

PU01/19/1/3H) CHEAI 110400 Babar Magibool BS chemical Eng value is proportional to the size of the system it describes, as to the grantity of matter in the System. For example: the mass of a sample is an extensive Quantity it depends on the annount of substance? Given data I I HEN C. O P-Tbab A = 2 600 KJ Kg 8:011 X = 7 = 010.1 - 1 h=hfth hat. JP00177 -P01182 = X100P2)182 5/8000 C 1934 185 201 portos 07/10 ×9 /2067/10 1×20192065,1.1. 0-x09 /2/01/01/20 = x = 0





CHEANAIIIO49 From stream tables , at P= MPa 0, -0.0012, vo=0.0996 Sincerv, >vv at P=MPG, the stream is sperheated. T (°C) - 3 (m3/kg) 212.4 0.0996 0.1 7-[(1,-4)(n-n))+y, T= (225-212.4) 0.2 -0.0996 +212.4 T-213.6°C (b) cû =? P2=2600 / 100 KPa = 10.000 KPn=10MPG. $b_{1,1,2}$ $b_{1,2}$ $b_{1,2}$ $b_{1,2}$ $b_{1,2}$ $b_{1,2}$ 3,=(P, 0,5 /45 it = (0.0345 m3/kg).
= (0.5 x (0.1),2),2 m3/kg.
(0.5 x 0.0316),2 (0.5 x 0.0516),661

CHENIGITIO49 U,=2602.97 KJ/Kg At state 2, P2 - 10MPa, U2 = 0.342 m3 3. (KJ/29) J2(m3/29) 3042.0 0.8.58 3144.5 0.6356 10 = 30.95.15 KJ/kg = (309515-2602.97)127 NO = 492:18 125/129 10 = 00 + w Q 2 KD - LD 2 R 11/9/2 (492.18-283.8) 127/Kg 1. 208.38 KJ/Kg P47413.800 PYTCHA CAC - CU 1 1 1 (a) w + p - GA 8)-818 JUSTWEST 19, A STERIES