

since diff. is 215=0

P1 = Pa. Pra = 26 kPa. 0.9781 = 36.9 kPa

7, = 36.9 FPa

3175

(STOTE 2) from CR

P2= 11P1= 11 (36.9 FPa) = 405 FPa

12 = 406 kPa

and it comp. is als = 0

Pr== Pri == (0.7781).11 = 8.559

the corresponding has is, from interpolation

h2s = (x,559 - 8,411) (5/3.6 - 503.3) 1/4 + 503.3 1/4

= 505. 8 H/g

how with To

h2 = f (h25-h1) + h1 = 0.85 (505.8-254.2) = + 254.2 / 49

2 \$50,2 Fg

non the corresponding To with interpolation is

T2 - (550.2 -544.6) 1/2 (555.0 -544.6) 1/2 + 540 K = 545.4 K

T2= 545 K

(Stores) since combuston has no p loss 13= 12 (State4) since

P3 = 406 kla

in + ic = 0 h3-hy + h, - h, = 0

hy = h, -h2+h3 = (54,2-550,2+1515) 18/4 = 1219 FJFg

interpolate to find Ty

Ty= (1219-1208) Kg (160-1140) Kg + 1140K = 1150F

John 3-0.90

hus = h3 - 1/2 (h3-h4) = 15/5 / 1/2 - 0.40 (15/5 - 1219) / 1/2 ¥ /186 1/26

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