

Tg = 3200K Cp = 05 L = 1 m D = .01m M. = . 3 T+1 = 200k P+1 = 20000 pa m=0.5kg/5 Y = CP > YE

> T+(X) = 200+1464.7 (1+ COS(TX) Tw(x)=T+(x) -41.015inTx

T+2 = T+1 + Wet A Tm = 200+ 4(05) (460.152)=3/29.42 K

Tw[]=Ts=) get Lot mar Wall temp: (\frac{\lambda}{L})_{Tw=T_6}= |+\frac{1}{17} \arctan(\frac{-17D}{2CFL}) = 903 \ Tw(.903)=Ts 1 8q = 2 = f = p [Tw (r) - T+ (r)] dx or Q = m cp (Tr2 - T+1) = 2114675.048 d/s
q = (sq dr = > q m = a/s

THE = THE PHE = PHE Trutton = No [...] 1/2 => M2 = , /38 from Newton P1 = 1+ 1 M2 (1- LFL) P1 = 1+ 1 M2 (1- LFL) 1+ 1.46.03 (1-5) = 8575 Pte = 173690 Prz = Pr ([12 M2))/2 => Pre n = P+e Ae 17 Me (17 1/2 Me2) - (171) Me = 7

THE = 1+ TI ME => Te, get Pe

Ue = MeVYRTE F = MU+ PLAC

Te= Tre = 289.763 k Pe = 41.958 pa