Next exam, make sure you scan is clearer than this Nuc 997 ayk 12 5 W/mk Up his notional entransmit P=7-59 raturally of 7 % b) Q = FENDOR PA the Breakfers 11=23T Ex-3×15" J/3 Rosene Eq. Of for oxe some 04 :5,5×10-11cm2 P(U,512) = 11.31 4/cm3 Na = Ne X (7,5)(NA) (.03)(NA) 1 X(UzSis) = 4.5 % Frishment C) Our to a lower know dansity (1 25); requires the hourself than the hourself the 2 00 rg 45 cm -12, 22/35 Two Table (4 500 (250) 45) 080 - ,000 cm -1, should be 615.4 4xe = 5 % 1 (1) (1) (1) (2) (2) (1) (1) (1) (1) Tel = Oleta , Teo Mares T : 650)1.915 × 1002.5 F (25.19)

1/4 = 16x10-017.79) Ti= 622.35 K hop: Xxi Kxi = Q. (+ Ti Tourf 1908 - ,27 60 10/com (2)(276) (45.) + 622.35 k 1 swis 826.154 K -1, should be 958 K 6) IN what is Max stress 0x = (7.5e 6 / 246.7e 9 / 63,25) E=296.76Pa x=7.5e-6 /11 0x = 39.03 MPa kg = ,2 00/cm x Occ - - Ox(1-12) To= To+ Q (5 000 = - 5 (1-3n2) DT= 250 ,950 Dez = -20x (1-202) Omx = 0x. 2 = 78.06 MPE -4, DT = 99.5 K BT= 6378 The otress would be Lower brown : Hos a small temprerature and ent

2 d. Assumptions

1. Kei = 17 Wenk
2 No Thermal Expansion
2 No Hermal Expansion in Emporature calculation
3 intemperature Colculation.

P-6MPa a) Assumptions I Settle Pad -3, Stress is constant across thickness ta = .00% cm 6 x400 . ,0056 0006 walled equation at two radii and compare answers The thin walled method 10the occupate grying approximent answers but it I not conservative = 706Pa Top

-4, Didn't write in tensor form-5, Calculate strains from stresses from part b