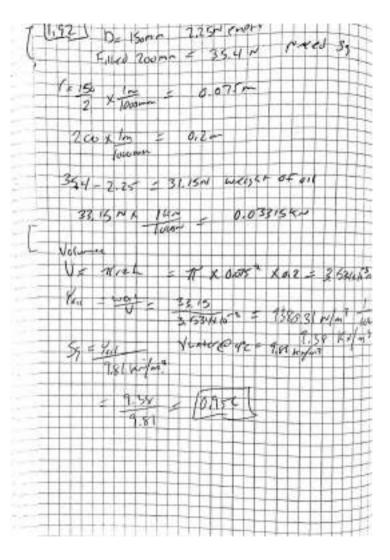
HOMEWORK MODULE 1

HW 1.1 THROUGH 1.4

ROY SHEPARD

[1.4]
$$C_{ON}$$
 SHEPPICED THOSE [1.4] C_{ON} C_{ON}



107 Sy= 6.79

Po Sy x P-Man Q4" L

= 179 L 1.89 = (1.53 5/05/\$43)

- 1.53 x 0.515 = (0.713/cm3) 1.107

DILATANT FluiDS Bingham Fluos Eletuneologica / Fluids Thirdman Fluids 2.18 Viscosing of water @45°C N=65x 104 Pa-5 [2.27] VISCOSITY OF HINDING YOU 1 = 1.8 × 107 16.5/ F2 2.35 USCUSINY OF SAE 3, oil @ 210° F 1=2.2×104/6-5/42

Stel BALL I Com 55-6,94 Steel wests 7700 13 DE 16 mm = 16x 16 5m 4= (0,44) 981) KN/m= 9.22 Kalm -L/1,2x 10-3 214×10-8 0,0240 16.45 (77) (214 × 10-3) 1,697 x 10-7 KM 1.971 108 11.047 × 16?) - (1,453 X 107 KM

37100 1,457 x 10 7 3T1 (0,024) (1,627) = 4.014 x 164 km.s/m. < .4014 M.s/m2 = .4014 Ph.s

Flamework. MCT 230 parm 3.6) PASS MEADURAL ATT AND PRISOR Abraba Private 1700 A Partie 1862 + 12.69 PSIA 0 SEA LENCE 3/97 DOSTA Supra. Altestane presure Francis Al My Breeste, and Temperature Changes Specific werser FAISE 14.7 15 any Tree D. SCHIENEL BURE K1 8,00 FAISE Œ a for megalise ande does not for ALS 5X- (1 106)

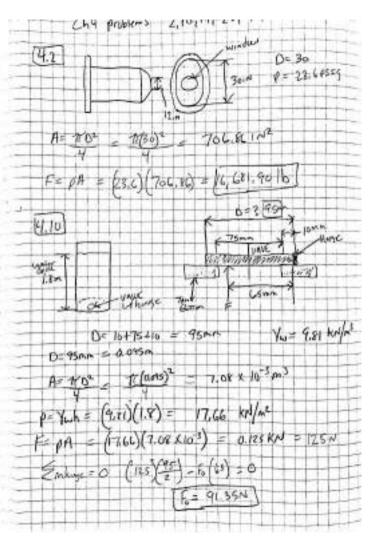
examed from prossess Pes ATT 147 PSZA This is true MIGN 14 A IM A VALUE Tonk OF There IS RATIONEN I'm ATA Pressure Truc MS KP (4mge) INTEGLI ATR = 162 KAM Post 15km + 1.72 97m Therorchenillo Plus CAM hausen True PHICON E DONE 50 TANK Wedt College 16 this harand applicati er a real world

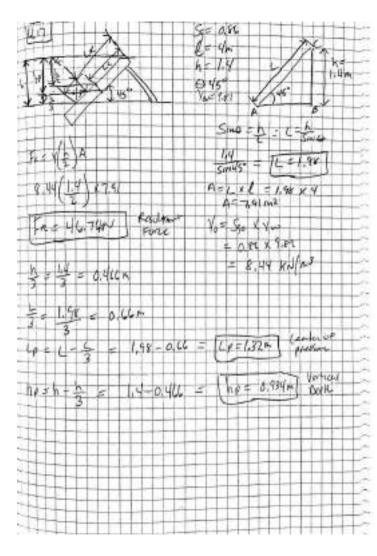
4600 = SEALEREL 1 = 0 0 764 h) [13 n=4000ff PAIM = 14.7 PSTA SEYL AP = (0.0764) (400) DP = 2 12 PSTA P= PATM- AP 14,7-2,12 12.58 PSIA

[3,13]	Aguse this lim	or lata
Pins		
Milk	Diagram	
PATA + P.	nge = Pabs	
Paks - Pm	on = Pgase creat pubs = PA	
	19e = 0	16.
4		

POUR SHEPPIRO MET 330 #23 CH3 41,62, 83, 90,94 CHY 2, 10, 17, 28, 42,54 AP= Yh Y= 10 79 Kajla? Ap= (10.71)/12) Chies's h:17.0 = 12948 KPA P= Surinepressed + AP 0 + 129.45 KPA = 129.48 KPA 3.62 WASER BIXLL Flight - PAL Par - Nutra + You Styley WED'S REST PASTERIADI + 980X84 600 Was the who PA= -10,943KPA 514 = 13.54 544 h== 0.1m Lh = 0.0750

PAIN = 14.2055A Yx = 844,116/62 = 7 59.44 6.4416/ms Parme Youk h= Pom 14.2 28,98 100 psh a hy Vm 0.45 [750] -12 Lakes 2.03 INHE PST 4 D= FIZ.4)(2,034) -257 INHY 1554 PRESTAN Maricon (4140) 160 = 9x1 kh 1 5 [6:31m Y= 1/61 KN/M Ale Lokpa



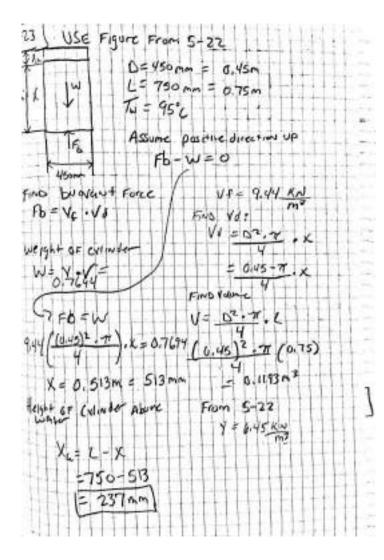


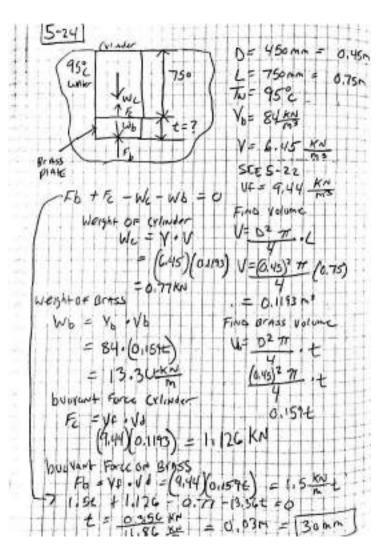
4.28 18.0 Live 74 4/25) 9-10 8.4% 350 678.00 RTY FE B. 48/5 FE (480° (0.30 = FE AF. 10 AF = 11,55 (cs30 11.55 +14.49 28.04 IN LEF AF IFE 78,04/1534 24.28,14 Le (05 30" 68.64 lb/fd 1.10 1 42.4 56- + Yu 68.64 (28.2) Cassil 17861. 11 cosec te 25.01 28,04. 25,02-28,04 -10,98ml

442 (464
$$V = \frac{0}{2}$$
 (056) $V = \frac{0}{2}$ (056) $V = \frac{0}{2}$ (056) $V = \frac{0}{2}$ (056) $V = \frac{0}{2}$ (057) $V = \frac{0}{2}$ (057) $V = \frac{0}{2}$ (058) $V = \frac{0}{2}$ (0

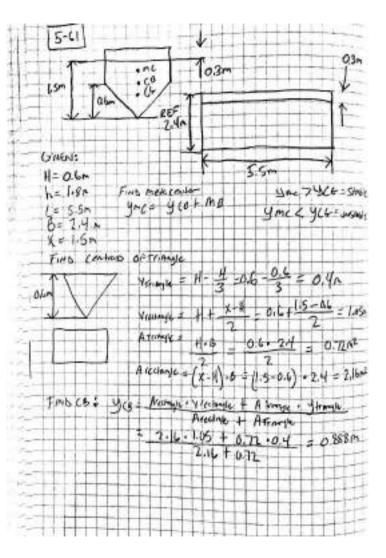
Steel cobe weight: 80 N Foom Foster + Portin force on Steel Cube 1002 9.31 x 10 /0001 = 7 Fb Steer Force WEGGHT OF Whow F b Steel + + VEL = WELFER + Worl - Floore

D=450 nn = 0.45m Ken Jews 0.75m 250 750m have positive direction : Fb-W=0 Vf = 8.07 KN FIND BUNGAT FORCE Fb = Yc . Vd Fo = (8.07). (0.0954) = 770N = 0.770KN FIND WEBST OF CVINNER = 0.0991 M Find Voltme : 0.770 = 0.1197 y = 0.1193 m3 Spetty weight





W= 450000 16 Yes = 85+ b= Sofe Stable = Vmc > Vcg FIRD relucen Unistable = Ymc < Xeq Ymc = yes+mo equilbrium equation V.a.b.x Find center Busiance 100 = X = 7,03 = 3,515# (20)(50)(7.9) = 7030613 FIND MB Ymc = Vcg + MB 8.255 \$1



(4=CB FIND NEW A Trimple = rectanglestar Form 6.33 my 06.55+ (15-06)-24.55 15. 84m Find ymu = 0.888 + SABL