(287) (303) 1.165 kg/m3 P=P=101.3×103 EX . Air @ 30°C. MWar = 29 TH: NRT (n=#of moles, R=8.314 KJ/Knotk) R= 8-314 = 0.287 KJ/kg K 11 J PA-M RT DA: mRT P= PRT \* P= 101-3 \*PC g 420 = 1000 kg/m3 < 1kg/Liter 413 pasoline = 720-750 kg/m³ 个 For gases: Use Ideal gas law. PHg = 13.6 × 103 kg/m3 Volume Universal Constant 1) Dansily = mass Properties of fluridle. = m(R)T PERMY AND - mR 1 go enstant speati to go Where

2.1×109 = 1450m/s 9 am= pat+apt = 0 1 Bulk Modulus: Gompressi birity. Speed of sound in medium (fund) diff KN; KH20 = 2:1 GPa E Ad = m KA - OLP

Af ob= C28 pr-1 Ag

AP = N(C28) PW=c, = P= C2) P = C2 P P(m) = c, = 1 = pr/c. If Ha < 0.3~0-4, assume medium of C= 1RT = ((287)(303) = 294m/5 Arr: Assume isothermed process: in compressible P= PRT => dp = dp(RT) = 1 (1.4) (287) (303) 1+ Ma >1 = supersonic from. 5 m b. 8 2 8 Mach member Ma & V Assume adiabalte C= 1 dp = 1 8 TT

or = sunface tension has muts of Force due to southern temen : (6) (2712) 111 - suface tension F/L [0]= N/m For a due to prosure: = pTR2 PTR2: 02TR Surface Tensim. Water 2000

