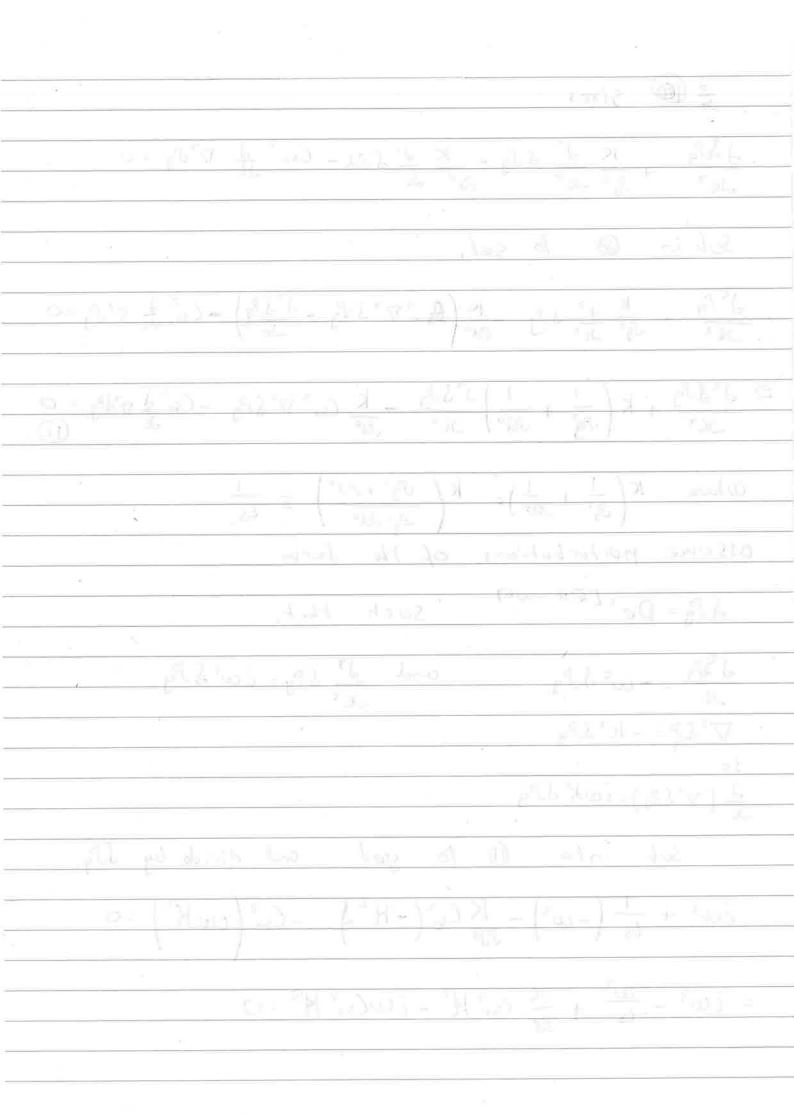
deriving the dispersion relation for ceesures in actust
deriving the dispersion relation for ceesures in actist and gas in ischine,
assuming small Purturbations of Sd = Pa + Sod
Sg = Sg + & Sg
Vg = 8Vg
Va = & Va ond
SG = Cs = 2 \$5 Pg
we can linearise our two Fluid equations too
D JSSg + V. (SgJVg) =0,
JE
3 252, 7. (Pi dva) = 0,
3) So J d Va = - Cso 2 Tr S Sg + [c [JVa-JVa]]
6 Pa° LV2 = - [[SV2 - SV9]
farsing where are ignore 2 nd order terms, due to small Perturbution
allso drop the S for Va, Vy for simplicity.
all De cop the officery,
Taking he dirergence of @ and @ loyel.
Pg d (7. Vg) = -Cs3 Tr SPg + K[7. V2 - T. Vg] 6
Pa° = (p. va) = - K[T. va - v. vy] 6,
add O+O to yet.
Pg & (V. Vy) + Al & (V. Va) = - Cso V Sy &.
<u>Je</u> 1.

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1 d p. 7. -2K P. W. - P. K. + C. W.C. [12.6 1 WLZ 6 1] X 5 1 12 1 13 6 _ (NS , E ALTO Dund 1-144 OF THE SERVICE THE SERVICE THE SERVICE (20)



now
$$\frac{k}{\Re^0} = \frac{\mathcal{P}_g^2}{(\mathcal{P}_g^2 + \Re^0)} = \frac{\mathcal{P}_g^2}{\mathcal{P}_g^2} = \frac{\mathcal{P}_g^2}{2g^2 + \Re^0}$$

so $\frac{1}{2} \cos^2 - \frac{1}{2} \cos^2 + \frac{1}{2} \cos^$

ATU. Tun = Fronty MLS IA. 910 Anne El 2 (1)) = = = be the mortified wind , A. o=('\\'3-\\\)=-(no - Cs. 16)