



3

F=PV be MOHENTOM DENSITY
VILOPITY VF of Fluid in R3 Let Be be ball radius & with boundary fre splere Se. MASThe SS F. LS DIV SSS (V. F) dV SE THM BE FLUX OFF 05.0F Se (V.F)(P) SSIdV Assume V. Fis constat = (v. 7)(P) Vol(BE) SS = d3 7CH 29U (O, F)(P) = lin Se E ->0 VOL (35) = FLUX DENKITY OF F AT P = RATE AT WHICH MASS FORMS P (PS/S) P. F > O at P: Pluid flows out of P P. P <0 at P