

## Fundamental Mechanics Of Fluids Currie 4th Edition

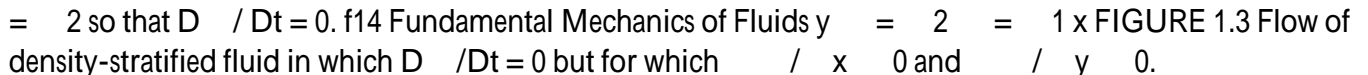
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A fluid particle that follows the lines  $\psi = 1$  or  $\psi = 2$  will have its density remain fixed at  $\rho = 1$  or  $\rho = 2$  so that  $D\rho/Dt = 0$ .  **FIGURE 1.3** Flow of density-stratified fluid in which  $D\rho/Dt = 0$  but for which  $u/x > 0$  and  $v/y > 0$ .

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BASIC CONSERVATION LAWS Page 1-9 Problem 1.9 For a Newtonian fluid, the dissipation function is defined by the following equation:  $2k_{ij}j_kj_l + i_uu_x + x_x$  Evaluating the various terms in this equation for the Cartesian coordinates  $(x, y, z)$  and the Cartesian velocity components  $(u, v, w)$ , yields the following value for  $2u^2 + 2v^2 + 2w^2 + uvw + vwx + yz + xzy + uvw + vwy + xz + zxy$  For a monotonic gas, the Stokes relation requires that  $2/3$ .

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