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A fluid particle that follows the lines  $\psi = \psi_1$  or  $\psi = \psi_2$  will have its density remain fixed at  $\psi = \psi_1$  or  $\psi = \psi_2$  so that  $D\rho/Dt = 0$ .  
f14 Fundamental Mechanics of Fluids  $y = \psi_2$   $\psi = \psi_1$  x  
FIGURE 1.3 Flow of density-stratified fluid in which  $D\rho/Dt = 0$  but for which  $\partial\rho/\partial x \neq 0$  and  $\partial\rho/\partial y \neq 0$ .

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Newtonian fluid, the dissipation function is defined by the following equation:  $2 \sum_{i,j,k} k_{ij} k_{ji} u_i u_j u_k$  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  $\Phi$ :  $2 \sum_{i,j,k} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_k} u_k$  For a monotonic gas, the Stokes relation requires that  $\mu = \frac{2}{3} \lambda$ .

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