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A fluid particle that follows the lines $\rho = \rho_0$
 $\rho = \rho_0$ or $\rho = \rho_0$ will have its density
remain fixed at $\rho = \rho_0$ or $\rho = \rho_0$ so

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that $D/Dt = 0$. f14 Fundamental Mechanics of Fluids $y = 2 = 1$ x FIGURE 1.3 Flow of density-stratified fluid in which $D/Dt = 0$ but for which $/x = 0$ and $/y = 0$.

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1-9 Problem 1.9 For a Newtonian fluid,
the dissipation function is defined by the

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following equation: $2 k i j j k j i i u u u x x x$ 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 $\nabla \cdot \mathbf{u}$: $2 \frac{\partial u}{\partial x} + 2 \frac{\partial v}{\partial y} + 2 \frac{\partial w}{\partial z}$ For a monotonic gas, the Stokes relation requires that $\frac{2}{3} \mu \nabla \cdot \mathbf{u} = \tau_{xx} - \tau_{yy} = \tau_{zz} - \tau_{yy}$.

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