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 $\rho = \rho_2$ will have its density
remain fixed at $\rho = \rho_1$ or ρ
 $= \rho_2$ so that $D\rho/Dt = 0$. f14

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FIGURE 1.3 Flow of density-
stratified fluid in which

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$D\rho/Dt = 0$ but for which
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1-9 Problem 1.9 For a
Newtonian fluid, the
dissipation function is
defined by the following
equation: $2 \nu \sum_{i,j} \epsilon_{ij} \epsilon_{ji}$

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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 $\nabla \cdot \mathbf{u}$:

$$\nabla \cdot \mathbf{u} = \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z}$$

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v w x y z x y z u v u w v w
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