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A fluid particle that follows the lines $\rho = \rho_1$ or $\rho = \rho_2$ will have its density remain fixed at $\rho = \rho_1$ or $\rho = \rho_2$ so that $D\rho/Dt = 0$.
f14 Fundamental Mechanics of Fluids y $\rho = \rho_2$
 $\rho = \rho_1$ 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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BASIC CONSERVATION LAWS Page 1-9 Problem 1.9
For a Newtonian fluid, the dissipation function is defined by the following

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equation: $2 \mu \nabla^2 \mathbf{u} - \nabla (\nabla \cdot \mathbf{u})$
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 $\nabla^2 \mathbf{u}$:
$$\nabla^2 \mathbf{u} = \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} \right) \mathbf{i} + \left(\frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} + \frac{\partial^2 v}{\partial z^2} \right) \mathbf{j} + \left(\frac{\partial^2 w}{\partial x^2} + \frac{\partial^2 w}{\partial y^2} + \frac{\partial^2 w}{\partial z^2} \right) \mathbf{k}$$
For a monotonic gas, the Stokes relation requires that $\mu = \lambda/3$.

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