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*Equation **Uniform Flow***

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Overview Potential Flow Theory

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A fluid particle that follows the lines $\psi = \psi_1$ or $\psi = \psi_2$ will have its density

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remain fixed at $x = x_1$ or $x = x_2$ so that
 $D\rho/Dt = 0$. f14 Fundamental
Mechanics of Fluids $y = y_2$ $y = y_1$ 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 equation: $2 \int_V \mathbf{k} : \mathbf{i} \mathbf{j} \mathbf{j} \mathbf{k} \mathbf{j} \mathbf{i} \mathbf{i} \mathbf{u} \mathbf{u}$

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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 $\nabla^2 \phi$:
$$\nabla^2 \phi = \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2} = \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2} + \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2}$$

For a monotonic gas, the Stokes relation requires that $\mu = \frac{2}{3} \lambda$.

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