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f14 Fundamental Mechanics of Fluids $\rho = \rho_2$
 $\rho = \rho_1$ x FIGURE 1.3 Flow of density-

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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:

$$2 \sum_{i,j} k_{ij} \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_i}$$

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 Φ :

$$\Phi = 2 \sum_{i,j} \mu \left(\frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_i} + \frac{\partial u_j}{\partial x_i} \frac{\partial u_i}{\partial x_j} \right)$$

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

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