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Fundamental Mechanics of Fluids y ? = ?2 ? = ?1 x FIGURE 1.3  
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following equation:  $2 \mathbf{k} \cdot \mathbf{i} \mathbf{j} \mathbf{j} \cdot \mathbf{k} \mathbf{j} \mathbf{i} \mathbf{i} \cdot \mathbf{u} \mathbf{u} \mathbf{u} \mathbf{u} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x}$  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  $\nabla \cdot (\mathbf{u} \otimes \mathbf{u})$ :  $2(u \frac{\partial u}{\partial x} + v \frac{\partial v}{\partial y} + w \frac{\partial w}{\partial z})$ . For a monotonic gas, the Stokes relation requires that  $\mu = \frac{2}{3} \lambda$ .

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