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 $\rho = \rho_2$   $\rho = \rho_1$  x FIGURE 1.3 Flow of density-stratified fluid in which  $D\rho/Dt = 0$

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1-9 Problem 1.9 For a Newtonian fluid,  
the dissipation function is defined by the  
following equation:  $2 \sum_{i,j,k} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_k} \frac{\partial u_k}{\partial x_i}$   
Evaluating the various terms in this  
equation for the Cartesian coordinates ( ,

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$(x, y, z)$  and the Cartesian velocity components  $(u, v, w)$ , yields the following value for  $\nabla^2(u^2 + v^2 + w^2)$ :  
$$\nabla^2(u^2 + v^2 + w^2) = 2u \nabla^2 u + 2v \nabla^2 v + 2w \nabla^2 w + 2u_x v_x + 2v_x w_x + 2u_y v_y + 2v_y w_y + 2u_z v_z + 2v_z w_z$$
 For a monotonic gas, the Stokes relation requires that  $\mu = \frac{2}{3} \lambda$ .

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