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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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Page 1-9 Problem 1.9 For a Newtonian fluid, the dissipation function is defined by the following equation:  $2 \int_V \left( k_{ij} j_k j_i + u_x u_x + u_y u_y + u_z u_z \right) dx dy dz$  Evaluating the various terms in this equation for

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the Cartesian coordinates  $(x, y, z)$  and the Cartesian velocity components  $(u, v, w)$ , yields the following value for  $\nabla^2 \phi$ :  
$$\nabla^2 \phi = \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2}$$
$$= \frac{\partial}{\partial x} \left( \frac{\partial \phi}{\partial x} \right) + \frac{\partial}{\partial y} \left( \frac{\partial \phi}{\partial y} \right) + \frac{\partial}{\partial z} \left( \frac{\partial \phi}{\partial z} \right)$$
$$= \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2}$$
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