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 $\rho = \rho_2$   $\rho = \rho_1$  x **FIGURE 1.3** Flow of

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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:  $2 k_{ij} k_{ji} u_i u_j$   
Evaluating the various terms in this  
equation for the Cartesian coordinates  $(x, y, z)$   
and the Cartesian velocity

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components  $(u, v, w)$ , yields the following value for  $\frac{2}{3} \frac{d}{dt} \int_V u^2 + v^2 + w^2$   
 $\int_V u^2 + v^2 + w^2 = \int_V u^2 + v^2 + w^2$   
 $\int_V u^2 + v^2 + w^2 = \int_V u^2 + v^2 + w^2$   
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