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f14 Fundamental Mechanics of Fluids $\rho = \rho_2$
 $\rho = \rho_1$ 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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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 : $\Phi = 2 \sum_{i,j} \mu \sum_j \sum_k \sum_i u_i u_j u_k x_i x_j x_k$

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