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A fluid particle that follows the lines $\psi = \psi_1$ or $\psi = \psi_2$ will have its density remain fixed at $\rho = \rho_1$ or $\rho = \rho_2$ so that $D\rho/Dt = 0$.

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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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1-9 Problem 1.9 For a Newtonian fluid,
the dissipation function is defined by the
following equation: $2 k_{ij} j_{kj} i i u u u u x$

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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 $\nabla^2 \phi$: $2(u^2 + v^2 + w^2 + u_x^2 + v_x^2 + w_x^2 + u_y^2 + v_y^2 + w_y^2 + u_z^2 + v_z^2 + w_z^2)$. For a monotonic gas, the Stokes relation requires that $\mu > 0$.

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eliminating negligible contributions to the
solution using scale analysis

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