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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

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$\rho = \rho_2$ $\rho = \rho_1$ x FIGURE 1.3

Flow of density-stratified fluid in which $D\rho/Dt = 0$ 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: $2 \sum_{i,j,k} k_{ij} k_{ji} u_i u_j u_k x_k$ 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 : $2(u^2 + v^2 + w^2 + 2uvx + 2vwy + 2wyz + 2uxz + 2vxy + 2wyz)$ For a monotonic gas,

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the Stokes relation requires that $2/3$.

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