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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 $\rho = \rho_2$ $\rho = \rho_1$ 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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BASIC CONSERVATION LAWS Page 1-9 Problem 1.9
For a Newtonian fluid, the dissipation function is defined by the following equation: $2 \sum_{i,j} k_{ij} \sum_i u_i u_j$
 $\sum_x x x$ 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 $\sum_i u_i u_i$: $2 \sum_i u_i^2 + 2 \sum_j v_j^2 + 2 \sum_k w_k^2$
 $\sum_x x x$ For a monotonic gas, the Stokes relation requires that $\sum_i u_i^2 \geq 0$.

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