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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 $y = y_2$

$= y_1$ 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: $2 k_{ij} j_k j_i i_u u_u u_x x_x x_x$ 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 Φ : $2(\mu \nabla^2 u^2 + \mu \nabla^2 v^2 + \mu \nabla^2 w^2 + \mu \nabla^2 u v w + \mu \nabla^2 x y z + \mu \nabla^2 x y z u v u w v w y x z x z y)$ For a monotonic gas, the Stokes relation requires that $2/3 \mu = \lambda$.

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