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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 $y = \rho_2$ $\rho = \rho_1$ 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: $2 k_{ij} k_{ji} u_i u_j$ 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 : $2(\mu + \frac{1}{3}\lambda)(u_x^2 + v_x^2 + w_x^2 + u_y^2 + v_y^2 + w_y^2 + u_z^2 + v_z^2 + w_z^2) + \frac{2}{3}\lambda(u_x + v_x + w_x)^2 + \frac{2}{3}\lambda(u_y + v_y + w_y)^2 + \frac{2}{3}\lambda(u_z + v_z + w_z)^2$ For a monotonic gas, the Stokes relation requires that $\lambda = -\frac{2}{3}\mu$.

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