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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  $D\rho/Dt = 0$ .  
f14 Fundamental Mechanics of Fluids  $\psi = \psi_2$   
 $\rho = \rho_1$  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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For a Newtonian fluid, the dissipation function is defined by the following equation:  $2 k_{ij} j_k j_i u_u u_x x_x$   
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  $\Phi$ :  $2 \mu [2u_x^2 + 2v_x^2 + 2w_x^2 + 2u_y^2 + 2v_y^2 + 2w_y^2 + 2u_z^2 + 2v_z^2 + 2w_z^2 + u_x v_x + u_y v_y + u_z v_z + v_x w_x + v_y w_y + v_z w_z + w_x u_x + w_y u_y + w_z u_z + x u_x + y v_y + z w_z]$   
For a monotonic gas, the Stokes relation requires that  $\mu = \lambda/3$ .

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ing some fundamental aspects of fluid mechanics. This area of mechanics is mature, and a complete coverage of all aspects of it obviously cannot be accomplished in a single volume. We developed this text to be used as a first course. The principles considered are classical and have been well-established for many years.

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