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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:  $2 \sum_{i,j,k} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_k} \frac{\partial u_k}{\partial x_i}$  Evaluating the various terms in this equation for the Cartesian coordinates ( , , ,x y z ) and the Cartesian velocity

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following value for :  $2 \frac{2}{3} \frac{2}{3} \frac{2}{3} \frac{2}{3} \frac{2}{3} \frac{2}{3} u v w u$

$v w x y z x y z u v u w v w y x z x z y$  For

a monotonic gas, the Stokes relation

requires that  $2/3$  .

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Topics/Outline: 1. Identification of similarity solution for Blasius boundary layer 2.

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