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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

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of Fluids $y = y_2 =$
1 x FIGURE 1.3 Flow
of density-stratified fluid
in which $D\rho/Dt = 0$ but

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for which $x = 0$
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BASIC

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LAWS Page 1-9 Problem

1.9 For a Newtonian

fluid, the dissipation

function is defined by the

following equation: $2 k_{ij}$

$\epsilon = \mu \nabla_i u_j + \nabla_j u_i - 2/3 \nabla_k u_k \nabla_l u_l$

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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 $\nabla^2 \phi$: $\nabla^2 \phi = \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2} = \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2}$. For a monotonic gas, the Stokes relation requires that $\mu = \frac{2}{3} \lambda$.

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Develop approximations

to the exact solution by

eliminating negligible

contributions to the

solution using scale

analysis Topics/Outline:

1. Identification of

similarity solution for

Blasius boundary layer 2.

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