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mass, momentum,
and energy; One-,
two-, and three-
dimensional flows;
Low Reynolds
number solutions;
Buoyancy-driven
flows; Boundary layer

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theory; Flow

measurement;

Surface waves; Shock
waves

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A fluid particle that
follows the lines $\rho = \rho_1$
 ρ_1 or $\rho = \rho_2$ will have
its density remain
fixed at $\rho = \rho_1$ or $\rho =$

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so that $D\rho/Dt = 0$.

f14 Fundamental
Mechanics of Fluids y

$\rho = \rho_2$ $\rho = \rho_1$ 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

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LAWS Page 1-9

Problem 1.9 For a

Newtonian fluid, the
dissipation function is

defined by the

following equation: $2 \sum_{i,j,k} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_k}{\partial x_i}$

Evaluating the

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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 $\Delta^2 \phi$:

$\Delta^2 \phi = \nabla^2 (u^2 + v^2 + w^2 + x^2 + y^2 + z^2)$

$= 2(u_x^2 + v_x^2 + w_x^2 + u_y^2 + v_y^2 + w_y^2 + u_z^2 + v_z^2 + w_z^2)$

For a monotonic

gas, the Stokes

relation requires that

$\mu = \frac{2}{3} \lambda$.

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behavior, and offers solutions to fluid flow dilemmas encountered in common engineering applications.

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Newcastle's emphasis on systematic and humane training was
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topics, covering the basic concepts and principles of fluid mechanics in a modern style.

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Currie, I.G. Currie.

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the basics of fluid
mechanics—before
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specialized areas
such as ideal-fluid
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layer theory. Filling
that void for both
students and
professionals working
in different branches
of engineering, this
versatile instructional
resource comprises
five flexible, self-
contained sections:

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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

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classical and have
been well-established
for many years.

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Engineering S.

Socolofsky 1 Blasius

Boundary Layer

Solution Learning

Objectives: 1.

Develop

approximations to the

exact solution by

eliminating negligible

contributions to the

solution using scale

analysis

Topics/Outline: 1.

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Identification of
similarity solution for
Blasius boundary
layer 2.

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covers two- and three-

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