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A fluid particle that follows the lines $x = x_1$ or $y = y_2$ 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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Fluids $y = y_2$ $x = x_1$

FIGURE 1.3 Flow of density-

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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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equation: $2 \mathbf{k} \cdot \mathbf{i} \mathbf{j} \mathbf{k} \mathbf{j} \mathbf{i} \mathbf{i}$
 $u \ u \ u \ u \ x \ x \ x \ x$ 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

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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

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Solution Learning

Objectives: 1. Develop approximations to the exact solution by eliminating negligible contributions to the solution using scale

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