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lines $\rho = \rho_1$ or

$\rho = \rho_2$ will have
its density

remain fixed at

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so that $D\rho/Dt =$

0. f14

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Fluids $\gamma \rho = \rho_2$

$\rho = \rho_1$ x FIGURE

1.3 Flow of dens

ity-stratified

fluid in which

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$D\rho/Dt = 0$ but
for which $\partial\rho/\partial x$
 $\neq 0$ and $\partial\rho/\partial y \neq$
 0 .

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a Newtonian

fluid, the

dissipation

function is

defined by the

following

equation: $2 k i$

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 Evaluating the
 various terms in
 this equation
 for the
 Cartesian
 coordinates (,
 , x y z) and the
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 velocity
 components (,
 , u v w), yields
 the following

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 $2 \frac{\partial^2 u}{\partial x^2} + 2 \frac{\partial^2 v}{\partial x \partial y} + 2 \frac{\partial^2 w}{\partial y^2}$
 $2 \frac{\partial^2 u}{\partial y^2} + 2 \frac{\partial^2 v}{\partial x \partial y} + 2 \frac{\partial^2 w}{\partial x^2}$
 $2 \frac{\partial^2 u}{\partial x \partial y} + 2 \frac{\partial^2 v}{\partial x^2} + 2 \frac{\partial^2 w}{\partial y^2}$
 $2 \frac{\partial^2 u}{\partial y^2} + 2 \frac{\partial^2 v}{\partial x \partial y} + 2 \frac{\partial^2 w}{\partial x^2}$
 For a
 monotonic gas,
 the Stokes
 relation
 requires that 2
 $\frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 v}{\partial y^2}$.

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