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A fluid particle that follows the lines $\psi = 71$ or $\psi = 72$ will have its density remain fixed at $\rho = 71$ or $\rho = 72$ so that $D\rho/Dt = 0$. 114 Fundamental Mechanics of Fluids $\psi = 72$? = 71 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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Fundamental Mechanics Of Fluids, Fourth Edition, 4/E. Hardcover – January 1, 2012, by I.G. Currie (Author) 3.0 out of 5 stars 17 ratings. See all formats and editions.

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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: $2 \sum_{i,j} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_i}$ 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 Φ : $2 \sum_{i,j} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_i} = 2 \mu (\frac{\partial u}{\partial x})^2 + 2 \mu (\frac{\partial v}{\partial y})^2 + 2 \mu (\frac{\partial w}{\partial z})^2 + 2 \mu (\frac{\partial u}{\partial y} + \frac{\partial v}{\partial x})^2 + 2 \mu (\frac{\partial u}{\partial z} + \frac{\partial w}{\partial x})^2 + 2 \mu (\frac{\partial v}{\partial z} + \frac{\partial w}{\partial y})^2$ For a monotonic gas, the Stokes relation requires that $2/3$.

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