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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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