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A fluid particle that follows the lines $\psi = 1$ or $\psi = 2$ will have its density remain fixed at $\rho = 1$ or $\rho = 2$ so that $D\rho/Dt = 0$. 114 Fundamental Mechanics of Fluids $\psi = 2 = 1 \times$ FIGURE 1.3 Flow of density-stratified fluid in which $D\rho/Dt = 0$ but for which $\partial\rho/\partial x \neq 0$ and $\partial\rho/\partial y \neq 0$.

Fundamental Mechanics of Fluids, Fourth Edition | Currie ...

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