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A fluid particle that follows the lines $\rho = \rho_1$ or $\rho = \rho_2$ will have its density remain fixed at $\rho = \rho_1$ or $\rho = \rho_2$ so that $D\rho/Dt = 0$. [f14 Fundamental Mechanics of Fluids](#) $y = \rho_2$ $\rho = \rho_1$ 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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Fundamental Mechanics Of Fluids, Fourth Edition, 4/E. Hardcover \square 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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