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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  $y = \rho_2, z = \rho_1, x$  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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