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Lecture 6 - Fluid Mechanics - part 1

Fluid Mechanics | Module 1 |

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(PART-1)Basic of Fluid Mechanics part

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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 = 2 = 1 x FIGURE 1.3 Flow of density-stratified fluid in which $D\rho/Dt = 0$ but for which $\rho/\rho_0 > 0$ and $\rho/\rho_0 < 0$.

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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: $2 k_i j j k j i i u$
 $u u u x x x x$ Evaluating the various
terms in this equation for the
Cartesian coordinates (, , x y z) and

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the Cartesian velocity components (u, v, w) , yields the following value for $\nabla \cdot \mathbf{u} = \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z}$. For a monotonic gas, the Stokes relation requires that $\frac{\partial u}{\partial x} = \frac{\partial v}{\partial y} = \frac{\partial w}{\partial z}$.

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