

## Fundamental Mechanics Of Fluids Currie Solutions Manual

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A fluid particle that follows the lines  $\psi = \psi_1$  or  $\psi = \psi_2$  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  $\psi = \psi_1$  or  $\psi = \psi_2$  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  $\partial\rho/\partial y \neq 0$ .

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

Fundamental Mechanics Of Fluids, Fourth Edition, 4/E. Hardcover | 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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BASIC CONSERVATION LAWS Page 1-9 Problem 1.9 For a Newtonian fluid, the dissipation function is defined by the following equation:  $2 \sum_{i,j,k} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_k}$  Evaluating the various terms in this equation for the Cartesian coordinates  $(x, y, z)$  and the Cartesian velocity components  $(u, v, w)$ , yields the following value for  $\Phi$ :  $2 \sum_{i,j,k} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_k} = 2 \mu (\frac{\partial u}{\partial x})^2 + 2 \mu (\frac{\partial v}{\partial y})^2 + 2 \mu (\frac{\partial w}{\partial z})^2 + 2 \mu (\frac{\partial u}{\partial y} + \frac{\partial v}{\partial x})^2 + 2 \mu (\frac{\partial u}{\partial z} + \frac{\partial w}{\partial x})^2 + 2 \mu (\frac{\partial v}{\partial z} + \frac{\partial w}{\partial y})^2$  For a monotonic gas, the Stokes relation requires that  $2/3$ .

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Fundamentals of Fluid Mechanics - Shandong University

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