

Solution Manual

Chapter 1

1.1 For the two-dimensional flow field defined by the velocity components $v_x = \frac{1}{1+t}$, $v_y = 1$, $v_z = 0$, find the Lagrangian representation of the paths taken by the fluid particles.

Solution: Since the velocities all are dependent on time and independent of position, the path lines taken are all straight lines. The position in the y direction changes linearly in time, while the position in the x direction does not change. In the x direction the position changes as $\ln(1+t)$. Thus a particle which at time t_0 is at (X_0, Y_0, Z_0) will be at the position

$$(X, Y, Z) = (X_0, Y_0, Z_0) + \left(\ln \frac{1+t}{1+t_0}, t-t_0, 0 \right).$$

1.2 Find the acceleration at point $(1, 1, 1)$ for the velocity $\mathbf{v} = (yz + t, xz - t, xy)$.

Solution:

$$\begin{aligned} \mathbf{v} &= (yz + t, xz - t, xy) \\ a_x &= \frac{\partial v_x}{\partial t} + v_x \frac{\partial v_x}{\partial x} + v_y \frac{\partial v_x}{\partial y} + v_z \frac{\partial v_x}{\partial z} \\ &= 1 + (yz + t) \cdot 0 + (xz - t) \cdot z + xy \cdot y = 1 + x(y^2 + z^2) - tz. \end{aligned}$$

- 1.3**
- Find the relationship between velocity components in cylindrical polar coordinates in terms of components in Cartesian coordinates, as well as the inverse relations. Use Figure 1.4.1.
 - Find the relationships between velocity components in spherical polar coordinates in terms of components in Cartesian coordinates, as well as the inverse relations. Use Figure 1.4.3.

Advanced Fluid Mechanics Solution Manual

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