

Example #1:

The motion of a fluid particle in Lagrangian system is given by

$$x = x_0 + y_0 t + z_0 t^2$$

$$y = y_0 + z_0 t + x_0 t^2$$

$$z = z_0 + x_0 t + y_0 t^2$$

Find the components of velocity at any time t in the Eulerian system.

Solution:

Given that

$$x = x_0 + y_0 t + z_0 t^2 \quad \text{--- (i)}$$

$$y = y_0 + z_0 t + x_0 t^2 \quad \text{--- (ii)}$$

$$z = z_0 + x_0 t + y_0 t^2 \quad \text{--- (iii)}$$

In Eulerian system, the velocity components are given by

$$u = \frac{dx}{dt}, \quad v = \frac{dy}{dt}, \quad w = \frac{dz}{dt}$$

differentiate eq (i) w.r.t 't' we get

$$\frac{dx}{dt} = y_0 + 2z_0 t$$

$$u = y_0 + 2z_0 t \quad \text{--- (iv)}$$

differentiate eq (ii) w.r.t 't'

$$\frac{dy}{dt} = z_0 + 2x_0 t$$

$$v = z_0 + 2x_0 t \quad \text{--- (v)}$$

(1)

Solved Exam Problems In Fluid Mechanics

**Donald F. Young, Bruce R.
Munson, Theodore H. Okiishi, Wade W.
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