

ADVANCED FLUID MECHANICS NUMERICAL PROBLEMS

QUESTION NO 1

A nozzle is shaped that the velocity of flow along the centre line changes linearly from 1.5 m/sec in a distance of 0.375 m. Determine the magnitude of convective acceleration at the beginning and end of this distance.

Solution-

Given -

Velocity of fluid at beginning of the nozzle $v_1 = 1.5$ m/sec

Velocity at end of the nozzle $v_2 = 15$ m/sec

Length of the nozzle = 0.375 m

Convective acceleration at beginning and end = ?

Let us assume the sec 1 at beginning and sec 2 at the end of the nozzle.



Here the velocity is taking place in only one direction, thus this is a one-dimensional flow. Hence the component of velocity in y and z direction are zero or $v=0$, $w=0$

$$\therefore \text{Convecting acceleration} = u \frac{\partial u}{\partial x}$$

Where u is the velocity of direction of flow in x direction

$$\frac{\partial u}{\partial x} = \frac{15 - 1.5}{0.375} = \frac{13.5}{0.375} = 36 \text{ s}^{-1}$$

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