

2.16) contd.

Following the same procedure used in solving Prob. 2.14:

$$\dot{q}_{in} + \dot{q}_{out} = \dot{q}_{out} + \dot{q}_{out}$$

$$\dot{q}_{in} = 1.5 \frac{m^3}{s} + \int 0.3x^2 dx - \int 0.5(1-x) dx$$

$$\dot{q}_{in} = 1.5 \frac{m^3}{s} + 0.3 \frac{x^{3+1}}{3+1} - 0.5x_0^1 + 0.5 \frac{x^2}{2}$$

$$\dot{q}_{in} = 1.35 \frac{m^3}{s}$$

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and the velocity at the outflow is:

$$V_{out} = \dot{q}_{out} / \rho A = 1.35 m^3 / s / (977.8 kg / m^3 \cdot 0.1 m^2)$$

$$V_{out} = 0.014 m / s$$

2.17) $\vec{V} = -\frac{x}{2t} \hat{i} ; \mathcal{F} = \mathcal{F}_0 \cdot xt$

$$\vec{a} = \frac{d\vec{V}}{dt} = \frac{\partial \vec{V}}{\partial t} + u \frac{\partial \vec{V}}{\partial x} + v \frac{\partial \vec{V}}{\partial y} + w \frac{\partial \vec{V}}{\partial z}$$

$$\vec{a} = +\frac{x}{2t^2} \hat{i} + \left[-\frac{x}{2t}\right] \left[-\frac{1}{2t} \hat{i}\right]$$

$$\vec{a} = \frac{x}{2t^2} \hat{i} + \frac{x}{4t^2} \hat{i} = \frac{3x}{4t^2} \hat{i}$$

2.18) $\vec{a} = \frac{d\vec{V}}{dt} = \frac{\partial \vec{V}}{\partial t} + u \frac{\partial \vec{V}}{\partial x} + v \frac{\partial \vec{V}}{\partial y} + w \frac{\partial \vec{V}}{\partial z}$

$$\vec{a} = 2t \hat{i} - 10 \hat{j} + [6 + 2xy + t^2] [2y \hat{i} - y^2 \hat{j}]$$

$$- [xy^2 + 10t] [2x \hat{i} - 2xy \hat{j}] + 25 [0]$$

when (x, y, z) is $(3, 0, 2)$ and $t = 1$

$$\vec{a} = \hat{i} [2 - 60] + \hat{j} [-10] = -58 \hat{i} - 10 \hat{j}$$

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