

2B.10 Incompressible flow in a slightly tapered tube

a. The radius at any downstream distance is

$$R(z) = R_0 + (R_L - R_0)(z/L)$$

b. Changing the independent variable proceeds as follows:

$$w = \frac{\pi R^4 \rho}{8\mu} \left(-\frac{d\mathcal{P}}{dR} \right) \left(\frac{dR}{dz} \right) = \frac{\pi R^4 \rho}{8\mu} \left(-\frac{d\mathcal{P}}{dR} \right) \left(\frac{R_L - R_0}{L} \right)$$

c. First we rearrange the equation in (b) to get

$$-\frac{d\mathcal{P}}{dR} = \left(\frac{8\mu w}{\pi \rho} \right) \left(\frac{L}{R_L - R_0} \right) \frac{1}{R^4}$$

Then we integrate this equation to get

$$-\int_{\mathcal{P}_0}^{\mathcal{P}_L} d\mathcal{P} = \left(\frac{8\mu w}{\pi \rho} \right) \left(\frac{L}{R_L - R_0} \right) \int_{R_0}^{R_L} \frac{1}{R^4} dR$$

whence we can get the pressure difference in terms of the mass rate of flow

$$\mathcal{P}_0 - \mathcal{P}_L = \left(\frac{8\mu w L}{3\pi \rho} \right) \left(\frac{R_L^{-3} - R_0^{-3}}{R_0 - R_L} \right)$$

Next we solve to get the mass flow rate

$$w = \left(\frac{3\pi(\mathcal{P}_0 - \mathcal{P}_L)\rho}{8\mu L} \right) \left(\frac{R_0 - R_L}{R_L^{-3} - R_0^{-3}} \right) = \left(\frac{\pi(\mathcal{P}_0 - \mathcal{P}_L)R_0^4 \rho}{8\mu L} \right) \left(\frac{3}{R_0^4} \cdot \frac{R_0 - R_L}{R_L^{-3} - R_0^{-3}} \right)$$

This is the result, with the first factor being the solution for a straight tube, the second factor being a correction factor. It would be better to write the correction factor as "1 - X", so that the quantity X gives the deviation from straight-tube behavior. The quantity X is then

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