

2.14) contd.

Conservation of mass requires:

$$\dot{m}_{in} = \dot{m}_{out}$$

Or, since the flow is incompressible:

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

where $\dot{q}$ is the volume flow rate. This yields:

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

$$1.0 \frac{m^3}{s} + \int_0^1 0.3x^2 dx = \int_0^1 0.5(1-x) dx + \dot{q}_{outlet}$$

$$\dot{q}_{outlet} = 1.0 \frac{m^3}{s} + 0.3 \frac{x^3}{3} \Big|_0^1 - 0.5x \Big|_0^1 + 0.5 \frac{x^2}{2} \Big|_0^1$$

$$\dot{q}_{outlet} = 0.85 \frac{m^3}{s}$$

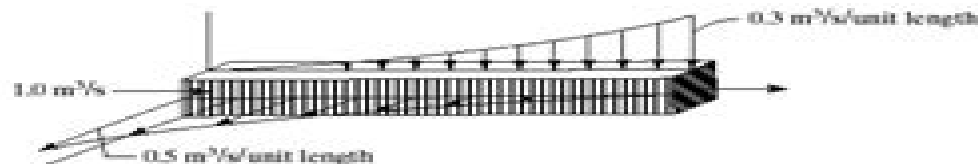
and the velocity at the outflow is:

$$V_{outlet} = \dot{q}_{outlet} / \rho A = 0.85 m^3 / s / (977.8 kg / m^3 \cdot 0.1 m^2)$$

$$V_{outlet} = 0.087 m / s$$

2.15)

Given: The same duct as in Problem 2.14.



Aerodynamics For Engineers 6th Solution Manual

Thomas Griffiths



Aerodynamics For Engineers 6th Solution Manual:

Applied Computational Aerodynamics Russell M. Cummings, William H. Mason, Scott A. Morton, David R. McDaniel, 2015-04-27 This computational aerodynamics textbook is written at the undergraduate level based on years of teaching focused on developing the engineering skills required to become an intelligent user of aerodynamic codes This is done by taking advantage of CA codes that are now available and doing projects to learn the basic numerical and aerodynamic concepts required This book includes a number of unique features to make studying computational aerodynamics more enjoyable These include The computer programs used in the book s projects are all open source and accessible to students and practicing engineers alike on the book s website www.cambridge.org/aerodynamics The site includes access to images movies programs and more The computational aerodynamics concepts are given relevance by CA Concept Boxes integrated into the chapters to provide realistic asides to the concepts Readers can see fluids in motion with the Flow Visualization Boxes carefully integrated into the text *Books in Print* ,1994 **Scientific and Technical**

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