

## Viscous Fluid Flow Solutions Chapter4

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6.2 Solution of the Equations of Motion in Rectangular Coordinates The remainder of this chapter consists almost entirely of a series of worked examples, illustrating the above steps for solving viscous-flow problems. Example 6.1 | Flow Between Parallel Plates Fig. E6.1.1 shows the flow of a fluid of viscosity  $\mu$ , which flows in the x-direction

#### Chapter 6 SOLUTION OF VISCOUS-FLOW PROBLEMS

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Indication of Laminar or Turbulent Flow The term  $f$  (friction factor) should be replaced by Reynolds number, where  $V$  is the average velocity in the pipe, and  $L$  is the characteristic dimension of a flow.  $L$  is usually  $D$  (diameter) in a pipe flow.  $\rightarrow$  a measure of inertial force to the  $\rightarrow$  a measure of inertial force to the

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Write down the Reynolds number ( $Re$ ) along the length of the flow as follows: Here,  $\rho$  is density of the fluid,  $V$  is velocity of the fluid,  $\mu$  is viscosity of the fluid, and  $L$  is length of the duct. Write down the coefficient of drag acting on the surface (red marked area  $A_L$ ) using the equation 4.53 as follows. Substitute for  $\rho$  in the above equation.

#### Solved: 4-13 Model a flow straightener as an array of thin ...

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3-1 Solve for constant-pressure Couette flow between parallel plates, as shown at right, for a non-newtonian fluid. Compare with the newtonian solution. Step-by-step solution: Chapter: CH1 CH2 CH3 CH4 CH5 CH6 CH7 Problem: 1P 2P 3P 4P 5P 6P 7P 8P 9P 10P 11P 12P 13P 14P 15P 16P 17P 18P 19P 20P 21P 22P 23P 24P 25P 26P 27P 28P 29P 30P 31P 32P 33P ...

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Flow velocity. The solution of the equations is a flow velocity. It is a vector field - to every point in a fluid, at any moment in a time interval, it gives a vector whose direction and magnitude are those of the velocity of the fluid at that point in space and at that moment in time. It is usually studied in three spatial dimensions and one time dimension, although the two (spatial ...

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