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6.2 Solution of the
Equations of Motion in
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Coordinates The
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chapter consists almost

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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 μ , which flows in the x direction

Chapter 6 SOLUTION OF VISCOUS-FLOW PROBLEMS

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is placed by Reynolds number, Re , 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. $Re = \frac{VL}{\nu}$ is a measure of inertial force to the viscous force. $Re > 2300$ is a measure of inertial force to the viscous force.

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Chapter 4

Reynolds number (Re) along the length of the flow as follows. Here, ρ is density of the fluid, v is velocity of the flow, μ 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 aL) using the equation 4.53 as follows. Substitute for Re in the above equation.

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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:

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CH4 CH5 CH6 CH7

Problem: 1P 2P 3P 4P

5P 6P 7P 8P 9P 10P 11P

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solution of the
equations is a flow
velocity. It is a vector
field - to every point in

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Chapter 1

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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