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Equations of Motion in
Rectangular

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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 μ , which flows

in the x direction

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or Turbulent Flow The

term Re (flow rate

should be e

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. in a pipe flow. -->

a measure of inertial

force to the $>$ a

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Write down the Reynolds number (Re) along the length of the flow as follows Here, ρ is density of the fluid, U 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

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4.53 as follows.

Substitute for 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:

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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,

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