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fluid of density
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remains constant. The average velocity, momentum flux correction factor, and gage pressure are known at the inlet (1) and outlet (2), as in Fig. P6–40.

Solved: An incompressible fluid of density ρ and viscosity μ ...

Therefore, the

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(11) is physically the decrement in momentum flow that exists across the wake, and from Equation (11), this wake momentum decrement is equal to the drag on the body. For incompressible flow, $\rho = \text{constant}$ and is known. For this case, Equation (11)

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With ...

In fluid mechanics or
more generally
continuum
mechanics,
incompressible flow
(isochoric flow) refers
to a flow in which the

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material density is constant within a fluid parcel—an infinitesimal volume that moves with the flow velocity. An equivalent statement that implies incompressibility is that the divergence of the flow velocity is zero (see the derivation below, which illustrates why

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