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fig 5 13 flow over a sphere note symmetry of streamlines about the x axis and y axis as we will see later it is possible through a proper transformation of the flow over a cylinder to obtain the flow over objects such as an airfoil figure 5 13 flow over a sphere note symmetry of streamlines about the x axis and y axis as we will see later it is possible through a proper transformation of the flow over a cylinder to obtain the flow over objects such as an airfoil in fluid mechanics one of the most widely studied cases of laminar flow involves the flow of fluid over a flat plate this type of flow finds applications in various fields including the study of plate heat exchangers aerodynamic surfaces in vehicles surface coating processes and microfluidics the solution to the boundary layer equations for steady flow over a flat surface parallel with the oncoming flow with the associated boundary conditions is called the blasius solution this was accomplished around 1913 originally by paul blasius a graduate student of prandtl s 1 george stokes introduced reynolds numbers osborne reynolds popularised the concept in fluid dynamics the reynolds number Re is a dimensionless quantity that helps predict fluid flow patterns in different situations by measuring the ratio between inertial and viscous forces ν u zero divergence a uniform flow is easily shown to have zero divergence $u \cdot \nabla u + v \cdot \nabla v = 0$ since both u and v are constants the equivalent statement is that $\phi(x, y)$ satisfies laplace s equation $\nabla^2 \phi = 0$ $\nabla^2 \phi = 0$ $\nabla^2 \phi = 0$ $\nabla^2 \phi = 0$ therefore the uniform flow satisfies mass conservation zero curl the relationships of flow over weirs can be obtained by applying the energy equation from a point well upstream of the weir to a point just above the weir crest this approach requires a number of assumptions and it yields the following results welcome to the engineering guide this is the first cfd tutorial of the channel today s tutorial will show you how to set up the cfd simulation for the fluid experiment 9 flow over weirs 1 introduction a weir is a barrier across the width of a river or stream that alters the characteristics of the flow and usually results in a change in the height of the water level several types of weirs are designed for application in natural channels and laboratory flumes a boundary layer flow is defined to be the

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