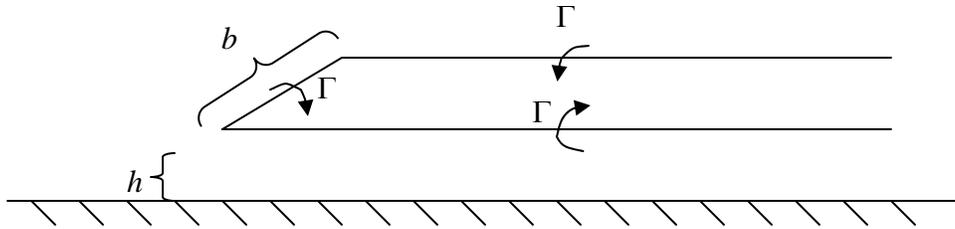


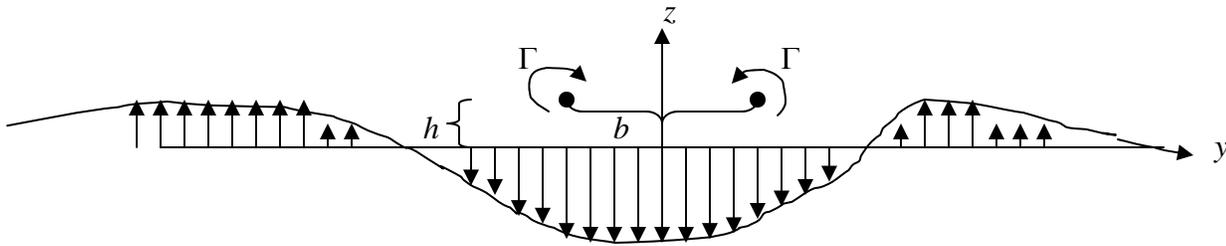
Ground Effect Using Single Vortex Model



What is the boundary condition at ground ($z = 0$) and does a single horseshoe vortex satisfy it??

B.C.: "solid wall" $\Rightarrow \vec{u} \cdot \vec{n} = 0$
 $\Rightarrow w = 0$ at $z = 0$!

Consider from far downstream:



So, to satisfy bc:

