

We use Streamlines at the Stationary points and analyze the change in momentum suffered by the fluid

There is an opposite force on the flate equal to the change on momentum of the fluid

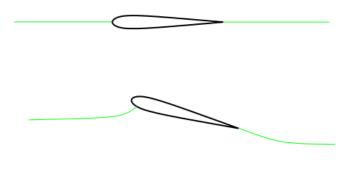
D> 40 + 42 + 42 + 2 + 940

Cambered Plate

Here it shape of the plate is used to change the momentum of the fluid and gain an upward force

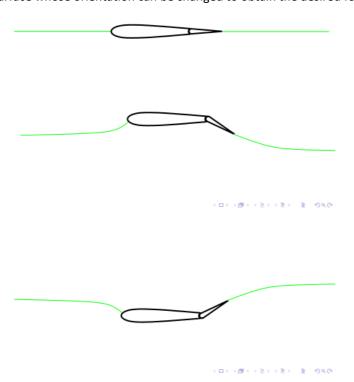


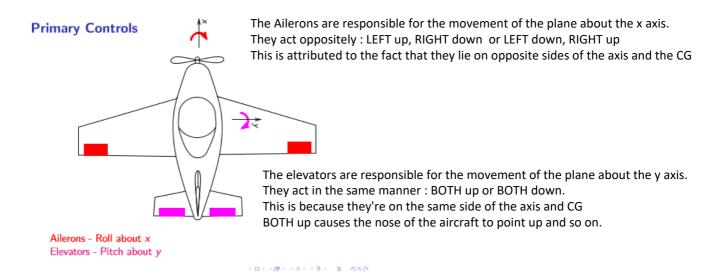
Symmetric Airfoil



Control Surface Manipulation

Instead of changing the orientation of the whole airfoil we can have a control surface whose orientation can be changed to obtain the desired force





Primary Controls

The Rudder is responsible for the movement of the Plane about the z axis

