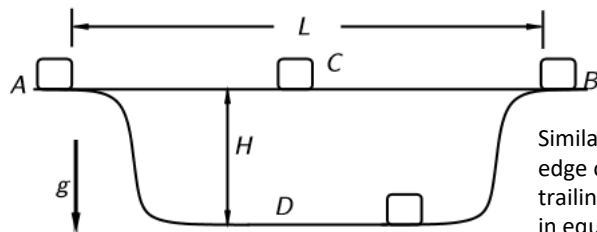


## No conservation of time - Blocks on a Frictionless Surface

This is an example to show the Fallacy of equal transit time.

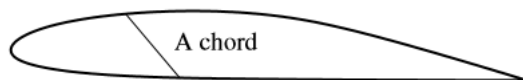


Similar to this, once a flow of fluid is separated at the leading edge of the airfoil, it is not necessary for them to meet at the trailing edge (that is, they may/may not travel over the airfoil in equal time)

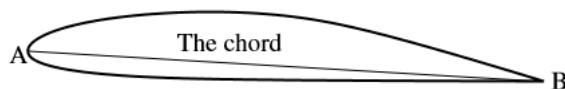
Hence, Once separated at the leading edge, The fluids are to be treated as individual flows independent of each other

## Some Parts of an Airfoil

A chord is any line which joins 2 points of the airfoil



The Chord is the longest line that can be drawn in the airfoil



Chord length =  $c$

Point A – leading edge, Point B is the trailing edge

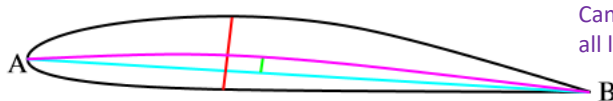
These edges are at the end of the chords

Navigation icons

Then we make lines perpendicular to the chord

## Parts of an Airfoil

Thickness  $t$  is reported for the longest line that can be drawn perpendicular to the chord



Camber line is the locus of midpoints of all lines perpendicular of the chord

Chord length =  $c$

Point A – leading edge, Point B is the trailing edge

$t$  is the thickness reported as  $t/c$  reported in %

Camber line

Camber reported as a percentage of  $c$

Camber is the maximum distance between the chord and the camber line. It is measured perpendicular to the chord line

Navigation icons