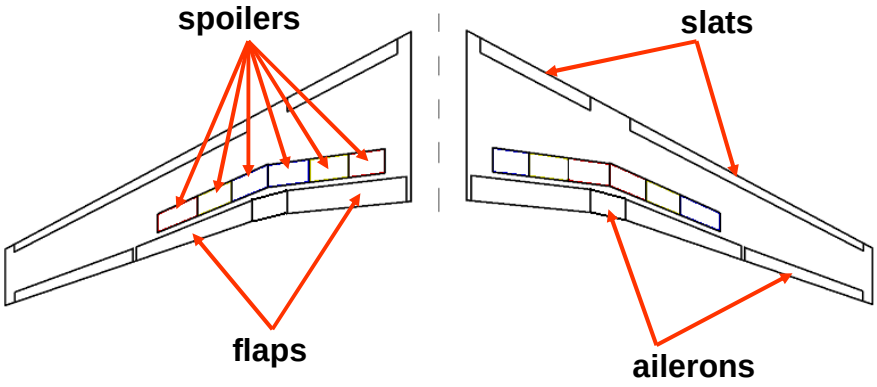
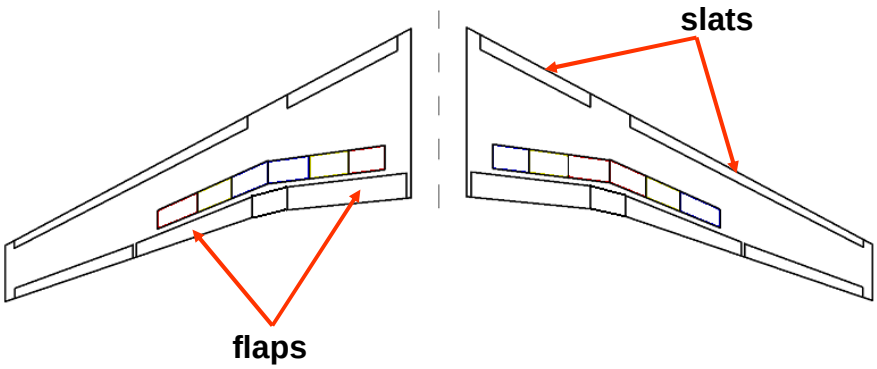
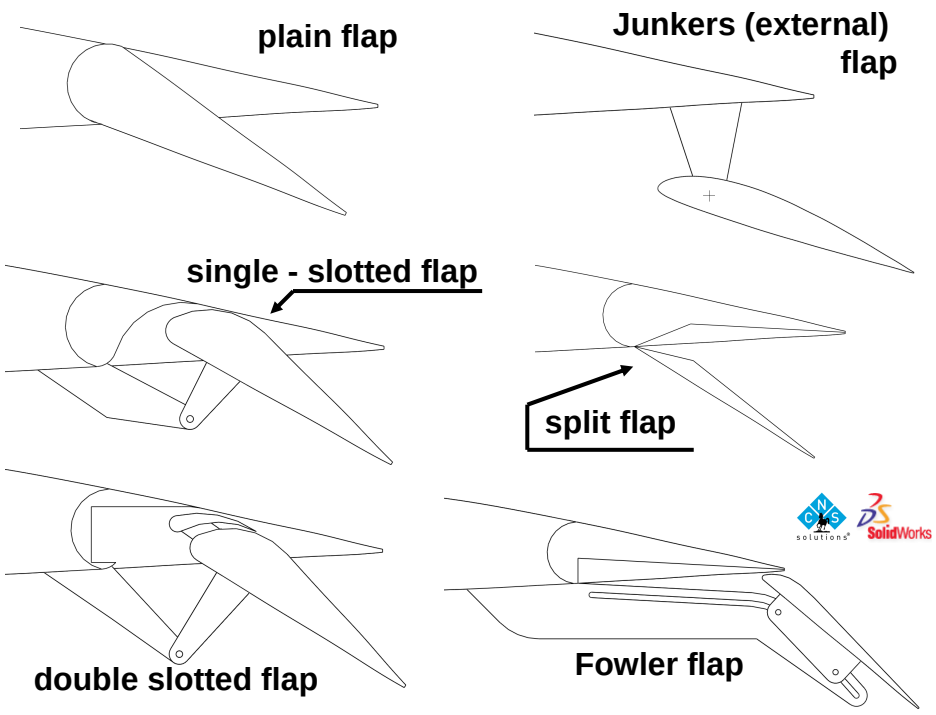
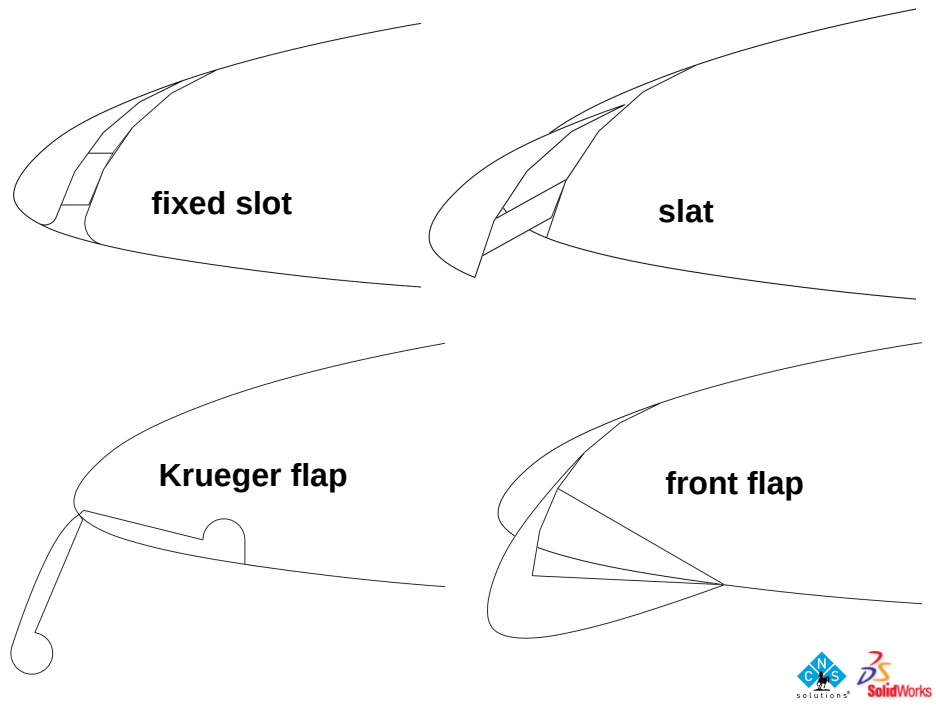
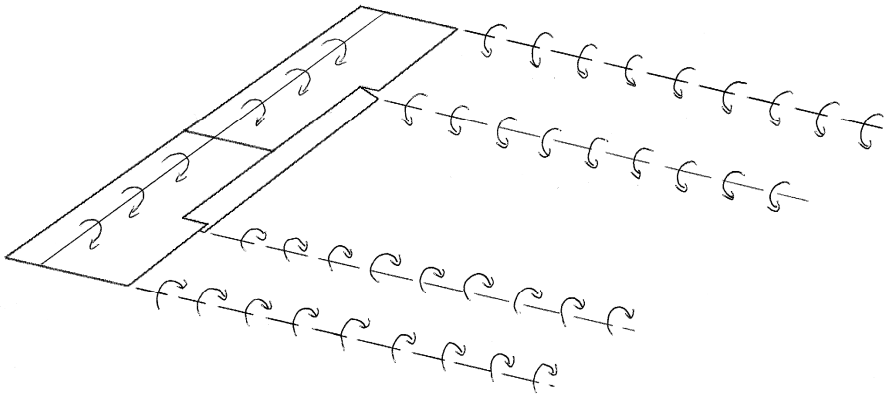
High lift devices and control surfaces



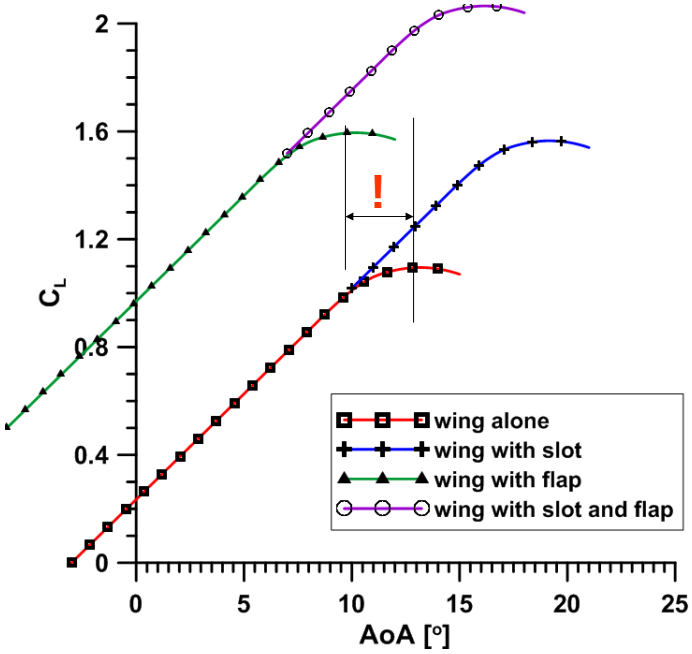


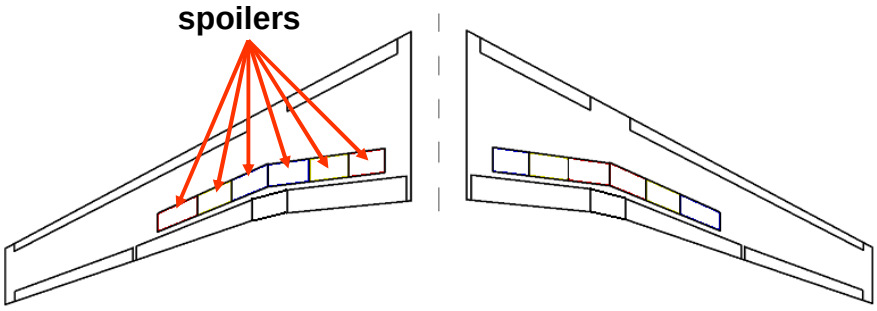

plain flap
Junkers (external) flap
single - slotted flap
split flap
double slotted flap
Fowler flap

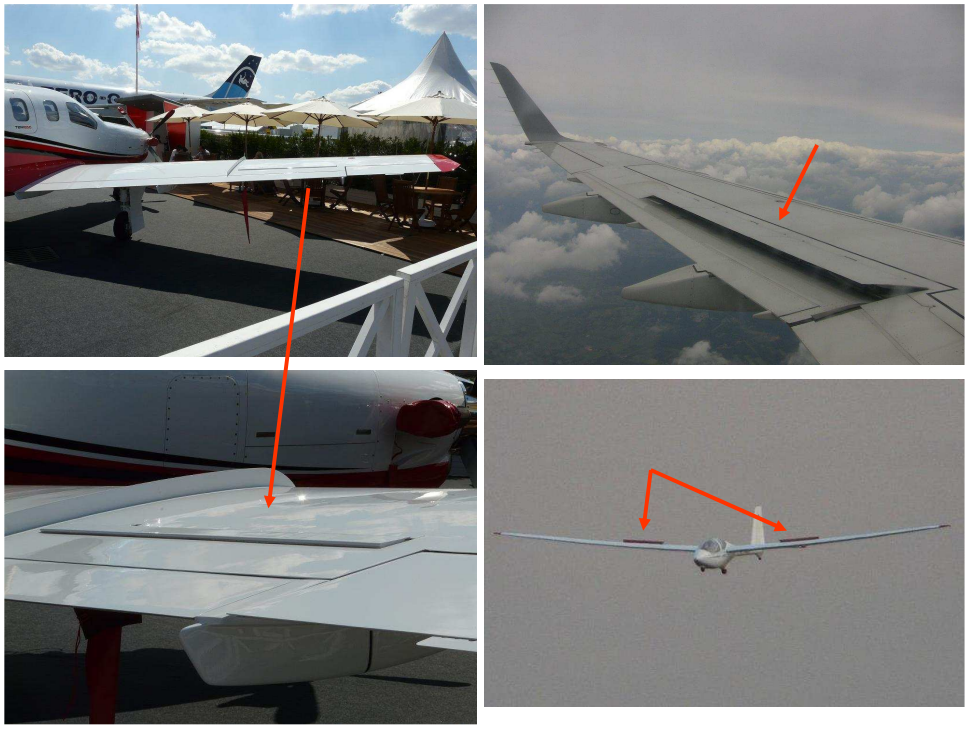

fixed slot
slat
Krueger flap
front flap

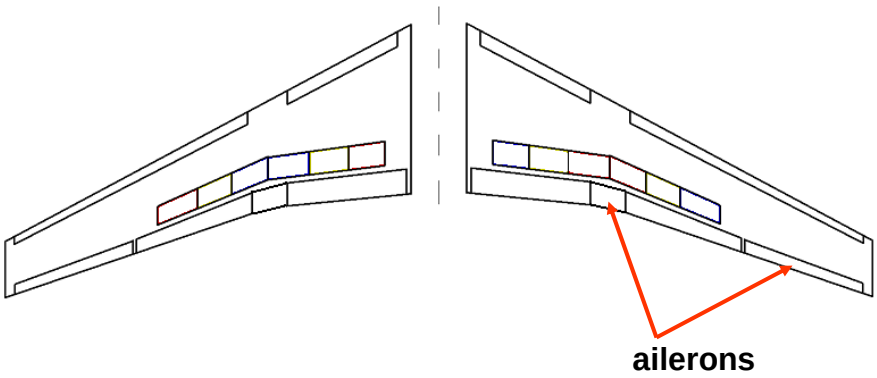


High lift devices effect on lift coefficient

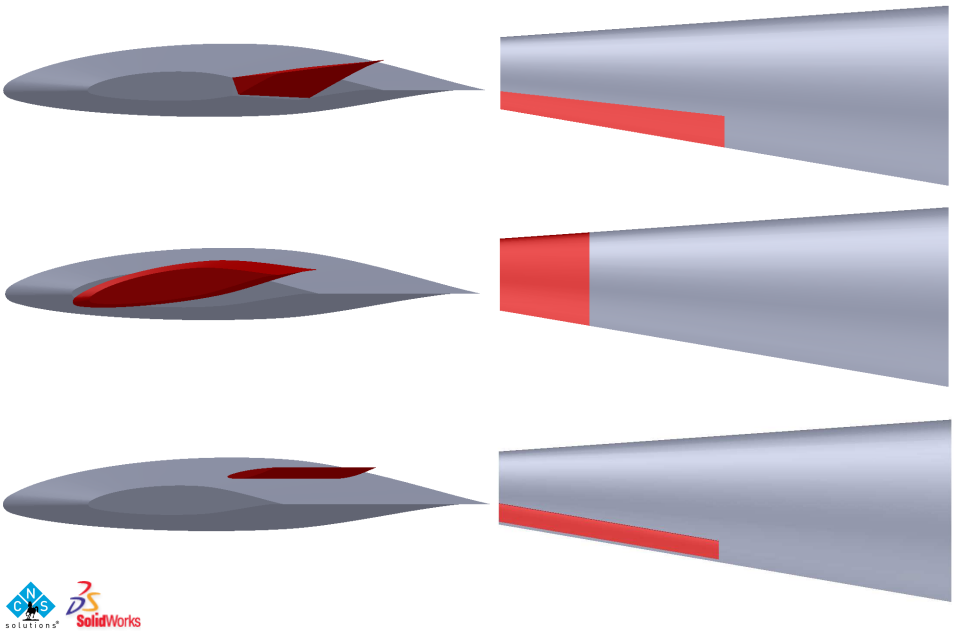


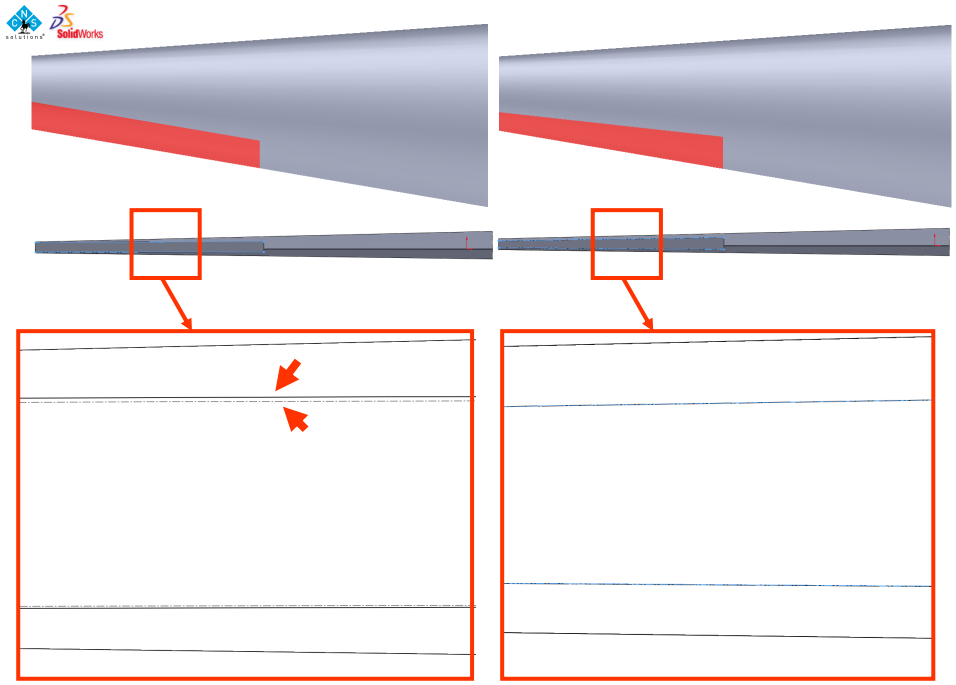




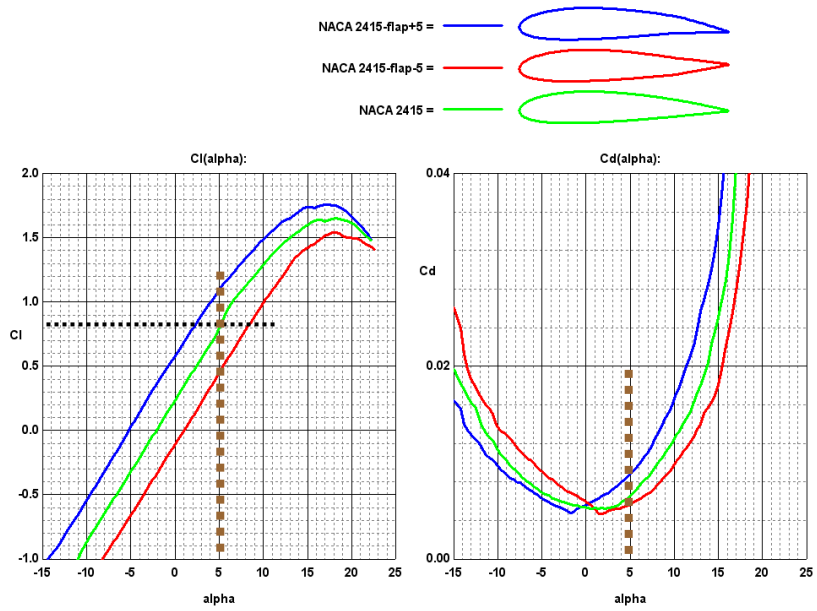

ailerons

Types of ailerons

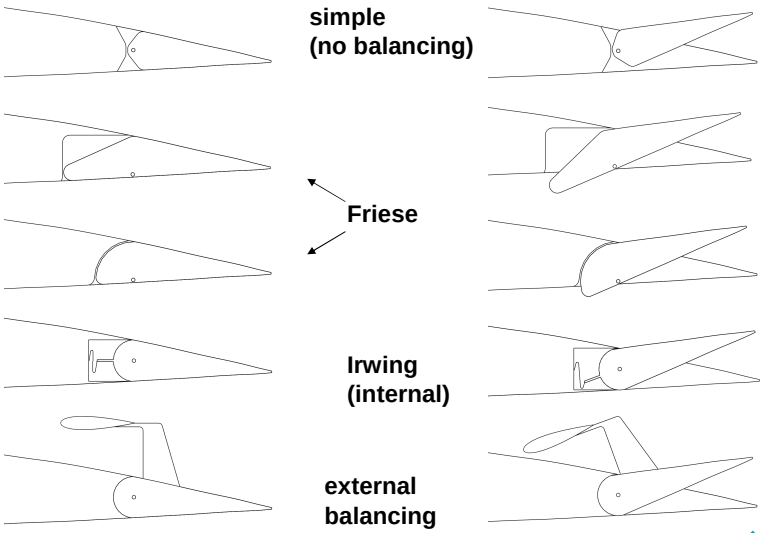




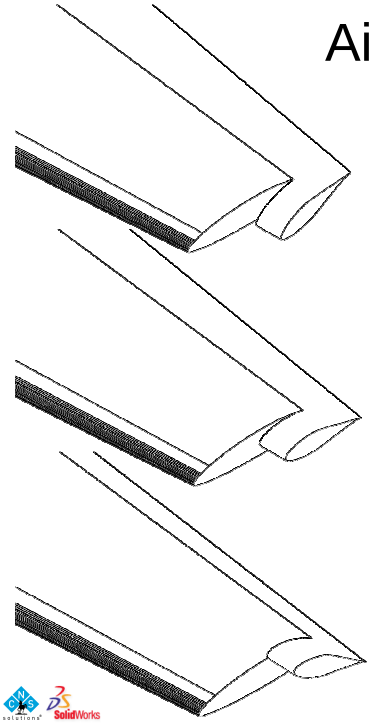
Ailerons' moment due to the drag difference

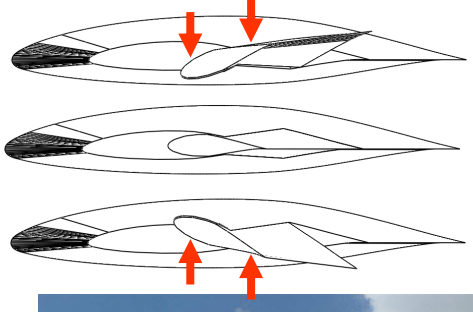


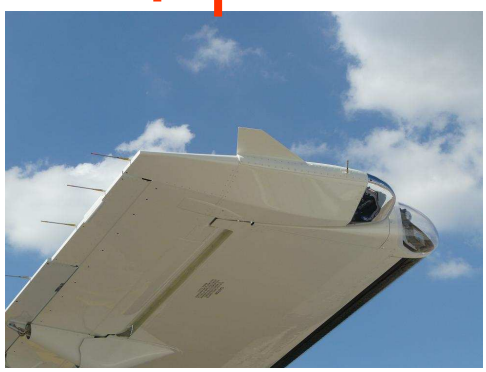
Balancing the ailerons



Ailerons' horn balance

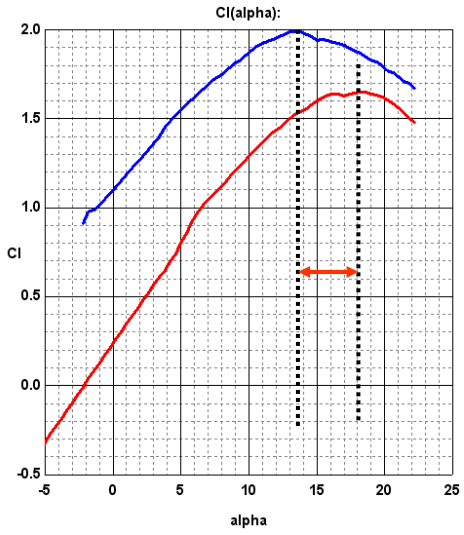




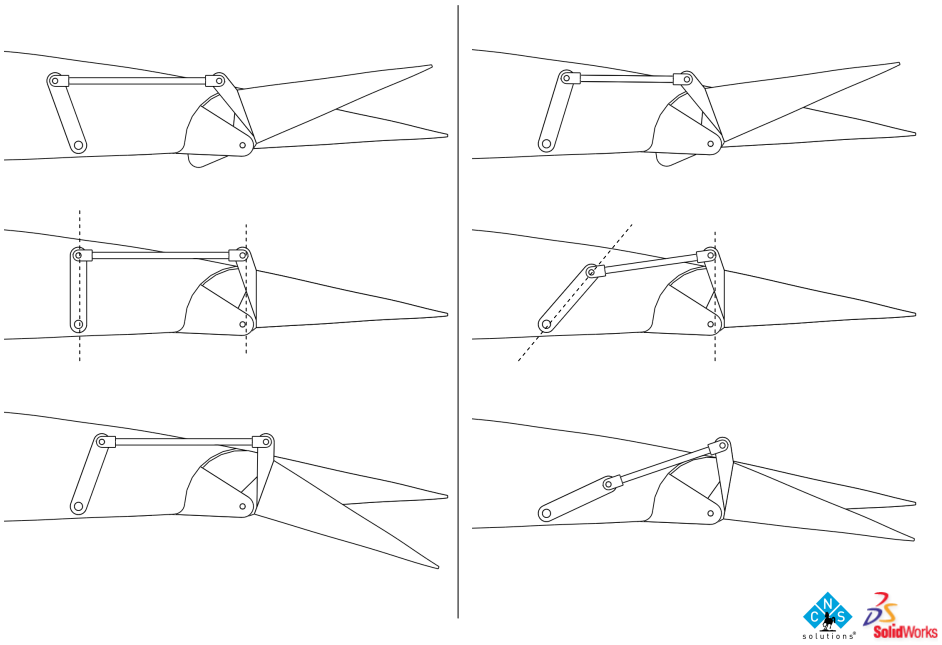


Boeing 747

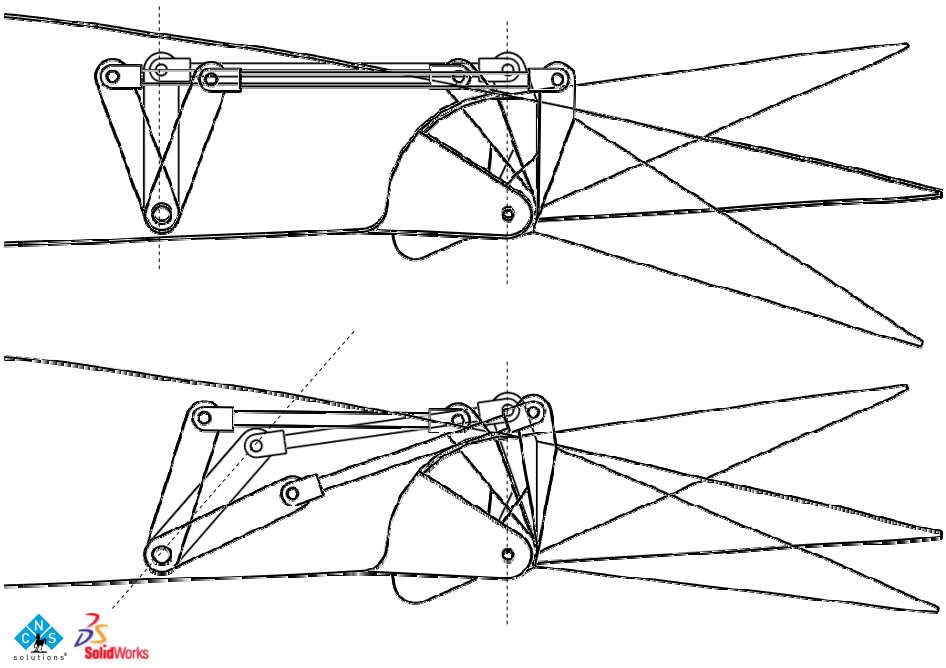
Stall threat

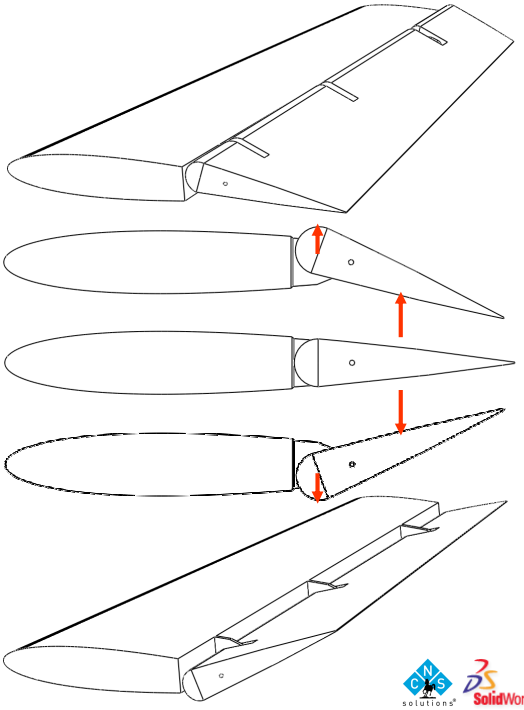


Differential aileron



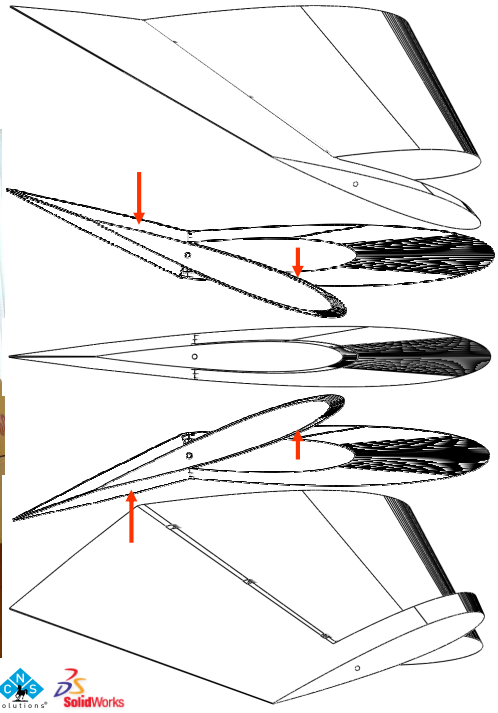
Differential aileron



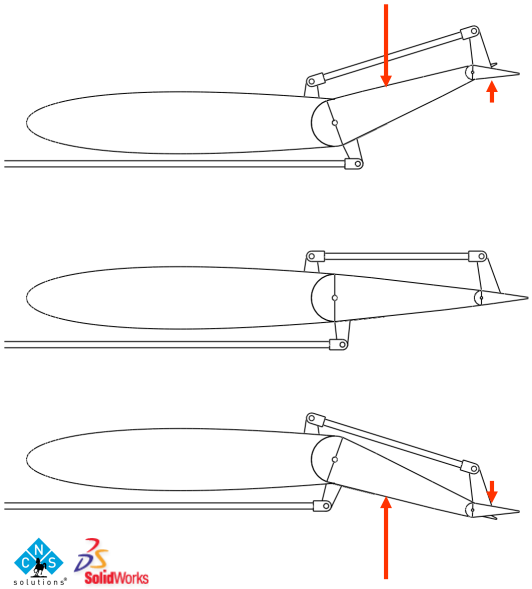


Overhanging balance

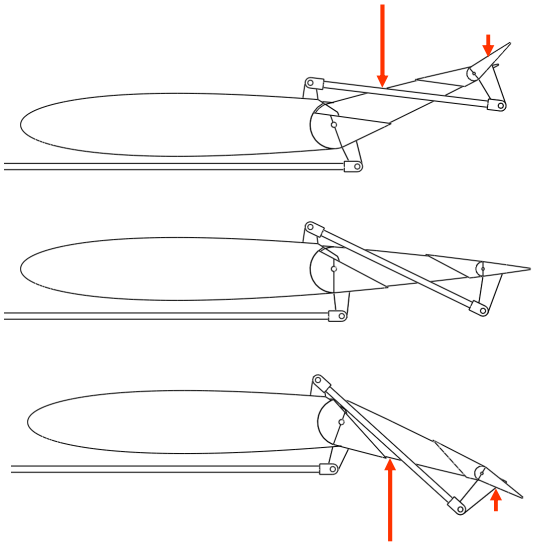
Horn balance



Balancing tab - Flettner

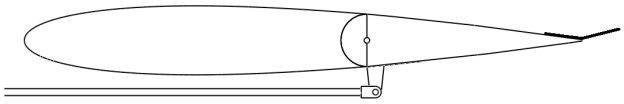


Inverted Flettner

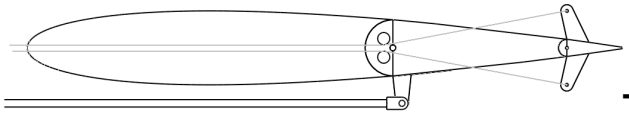


Trimmers

Adjustable stabilizer

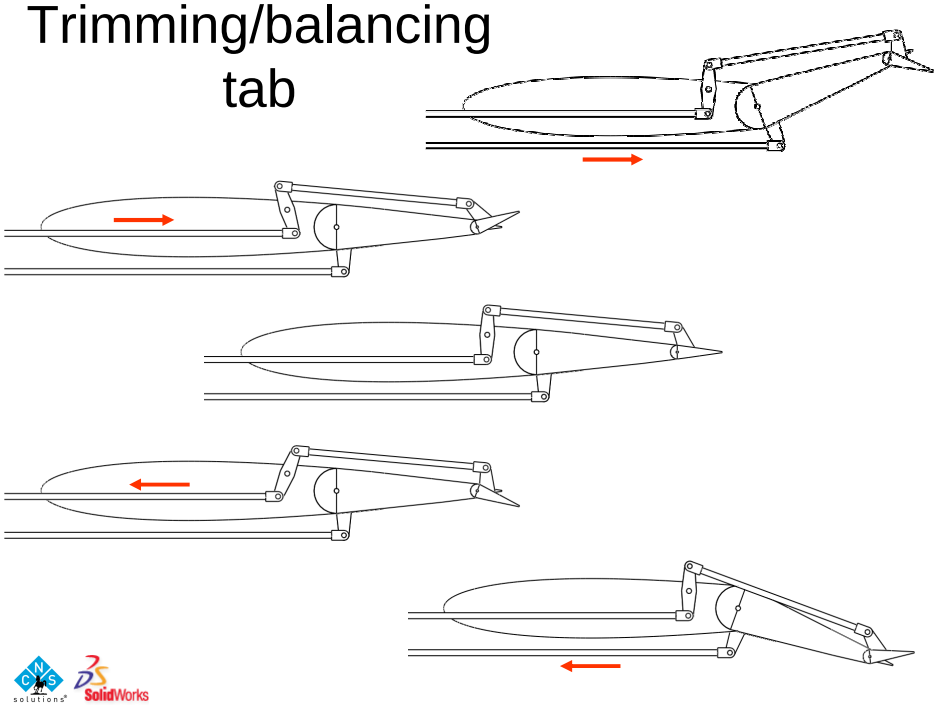


Fixed trim tab



Trim tab

Trimming/balancing tab



Where are ailerons?

Control surfaces in the flying wing