AILERON DRAG

Image source: aopa.org

AILERON DRAG

- The left turn on an airplane requires the right aileron to move down and the left aileron to move up.
- The down going right aileron will produce more lift on the right wing and the up going left aileron generate less lift on the left wing.
- Due to the lift generated on the right wing, the right wing is subjected to more induced drag than the left wing.

- This induced drag causes a momentary yawing effect to the right, when a left turn is desired.
- This occurrence which causes the aircraft to yaw in the undesired direction is known as aileron drag.
- Aileron drag may be noticeable in low airspeeds.
- Rudder can be used to recover from the aileron drag.
- The design features used to compensate for aileron drag are – Differential aileron and frise aileron