# Effect of Load factor on Stalling Speeds

It is important to appreciate that the stall is primarily dependent on angle of attack (), not speed (v). An aircraft can in fact stall at any speed, if the critical stalling angle is exceeded. This may happen during a maneuver when the maximum CL is exceeded.

In straight and level flight L = W; therefore n = 1. In any maneuver where lift is greater or smaller than weight, L = n W.

θ

L

W

Load factor (n) ≡ L / W