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estimation of drag, before moving on to a more detailed analysis of performance in both level and climbing ...

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Stability is basically defined as an aircraft's ability to maintain/return to original flight path. Allows aircraft to maintain uniform flight conditions, recover from disturbances, and minimize pilot workload. Aircraft are designed with positive dynamic, which implies positive static as well. More stable in right turns due to left turning tendencies.

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Most aircraft are designed with greater directional stability, and therefore a small disturbance in the rolling direction tends to lead to greater banking. If not counterbalanced by the pilot or electronic control system, the aircraft could enter an ever-increasing diving turn.

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Positive Dynamic Stability Aircraft with positive dynamic stability have oscillations that dampen out
over time. The Cessna 172 is a great example. If your 172 is trimmed for level flight, and you pull back on the yoke and then let go, the nose will immediately start pitching down.

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The relationship between aircraft performance and CG location is simple: by moving the CG forward and aft, you change the amount of tail down force and lift you need for stable flight. If you need more lift, you create more induced drag, and your performance goes down. But why are lift and CG located related? Your Airplane's Balancing Act

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the aforementioned explanation about aircraft stability is correct because it pertains to the low-α trim states. 5.6. Lateral stability and performance The wing incidence angles can be set anti-symmetrically on the two wings to generate rolling moment, and differential dihedral can serve as a yaw control mechanism as explained earlier in the ...

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Stability and Control • Performance topics deal with forces and translational motion needed to fulfill the aircraft mission • Stability and control topics deal with moments and rotational motion needed for the aircraft to remain controllable.

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The longitudinal stability of an aircraft, also called pitch stability, refers to the aircraft's stability in its plane of symmetry, about the lateral axis (the axis along the wingspan). One important aspect of the handling qualities of the aircraft, it is one of the main factors determining the ease with which the pilot is able to maintain trim.

Longitudinal static stability - Wikipedia
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An aircraft is a vehicle that is able to fly by gaining support from the air. It counters the force of gravity by using either static lift or by using the dynamic lift of an airfoil, or in a few cases the downward thrust from jet engines. Common examples of aircraft include airplanes, helicopters,
airships (including blimps), gliders, paramotors and hot air balloons.

**Aircraft - Wikipedia**
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