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no acceleration, so
we can infer from

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Newton's first law that the sum of forces acting on the aircraft is zero $\sum F = 0$. This is the equilibrium steady flight condition.

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...

Steady flight,
unaccelerated flight,
or equilibrium flight is

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a special case in flight dynamics where the aircraft's linear and angular velocity are constant in a body-fixed reference frame. Basic aircraft maneuvers such as level flight, climbs and descents, and coordinated turns can be modeled as steady flight maneuvers.

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Steady flight -

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PERFORMANCE In the previous studies, the various forces on the aircraft were explained in detail. The required conditions for flight depend on two equations: the equation of lift and the

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equation of thrust.
Now, we will discuss
the various types of
stable flight and the
performances.

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Several steady level
flight performance
measures are also

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studied. Steady level flight is the most common type of flight, sometimes referred to as cruising flight. It occurs when the aircraft velocity vector is a constant horizontal vector so that the path along which the aircraft moves is a straight line in a horizontal plane.

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flight instructor in World War I, Clarence was an early customer of Bellanca designs, purchasing the only Bellanca CE, built when he was working for the Maryland Pressed Steel Company. Through Clarence, Bellanca secured a position as a consultant for the ...

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