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(performance), stability, and
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limited to flight in a vertical plane and
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trajectory analysis, is concerned
primarily with the derivation of
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Newton's laws to the study of vehicle trajectories (performance), stability, and aerodynamic control. This volume details the derivation of analytical solutions of airplane flight mechanics problems associated with flight in a vertical plane. It covers trajectory analysis, stability, and control.

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mechanics, and goes on to cover topics such as air and airflow, aerofoils, thrust, level flight, gliding, landing, performance, manoeuvres, and stability and control. Important

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Flight mechanics are relevant to fixed

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wing and rotary wing aircraft. An
aeroplane, is defined in ICAO
Document 9110 as, "a power-driven
heavier than air aircraft, deriving its lift
chiefly from aerodynamic reactions on
surface which remain fixed under
given conditions of flight". Note that
this definition excludes both dirigibles,

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and ballistic rockets. Technically, both of these could be said to experience "flight mechanics" in the more general sense of physical forces acting on a body moving

~~Aircraft flight mechanics - Wikipedia~~
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2 Definitions and Aerodynamic
Fundamentals 2.1 An aircraft is
equipped with a wing of symmetrical
airfoils. The lift curve slope of the total

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aircraft is estimated to be $\alpha = 0.21$ rad. The stall angle of attack (AOA) is 12° .

~~Tutorial Questions with Solutions
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