

# Automatic Control in Aerospace

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**ABSTRACT:** Flight is a complex process involving a machine's balance, stability and control that is complex and elegant in design. In order to explore a wide range of theoretical applied issues that goes far beyond the formulation of systems equations with aircraft dynamics. In order to keep the aircraft flying directly, their human pilot or an automated flight control system (AFCS), based on feedback controls, must make continuous control correction. Aircraft differ from other forms of vehicle because they are the only ones to be maneuvered around six axes of movement, that is to say six degrees of freedom: three of them are related to the center of gravity being translated and the other three have an angular movement around the center. Any aircraft is operated by applying force on the controls to produce control forces and times necessary to guide the aircraft along the appropriate flight path and attitude. The elevator, ailerons and rudder are the control surfaces for a conventional plane. The  $\mu e$  elevator controls the angle of pitch. The  $\dot{c}$  aileron controls the angle of the roll and the  $\mu r$  rudder controls the angle of the lagoon. It is understood, however, that movement around one axis induces motions over other axes known as coupling, acting on one of these control components. Article will throw the light on how all these works and there application.

**Keywords:** Dynamics, gravity, stability, balance, dynamics & maneuver

## 1. INTRODUCTION

The Flight is a complex process involving balance, stability and the control of an intricate and elegant machine, in which we explore a wide variety of theoretical applications that go beyond the formulation of system equations by using aircraft dynamics. The aircraft must be constantly corrected by its human pilot or by an AFCS based on feedback control, to allow it to keep fly in a smooth, steady unaccelerated flight path.

The aircraft vary from other types of vehicles because they are the only one that can be driven around the six axes of motion that is six degree of freedom: three are connected to centreof gravity translation & the other three to the angular movement around the centre of gravity translation. The appliances forces control the aircraft on the control surface so that control forces are produced and the time needed to control the aircraft on the control surfaces so that control forces are produced and the time needed to control the appliance along the desired flight path and attitude. The elevator, ailerons and rudders are the control surfaces of a conventional aircraft. The elevator aileron is for controlling the pitch level, and the rudder aileron is for controlling the rolling angle and the laging angle. But it was generally known that movement around one axis generates motion over other axes, which is known as relation, by acting on one of these control elements.[1]-[4]

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**Camilla Rothe**



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