

# Active controls in aircraft design

## Agard - Supermaneuverability



Description: -

-Active controls in aircraft design

-

Holland memorial lectures, 1922

AGARD-AG-234

AGARDograph -- no.234 Active controls in aircraft design

Notes: Prepared at the request of the Guidance and Control Panel.

This edition was published in 1978



Filesize: 20.87 MB

Tags: #BAE #Systems #Selected #to #Provide #Flight #Control #System #for #New #Aerion #Supersonic #AS2 #Business #Jet

## The Area Rule and Aircraft Design » Jet Owner

And after I've done that, now I've got-- I've simply just repeated the first data value throughout my system. The airplane may converge continuously back to the original steady flight state; it may overcorrect and then converge to the original configuration in a oscillatory manner; or it can diverge completely and behave uncontrollably, in which case the pilot is well-advised to intervene. Again, so as I iterate through the design process I can just delete this and put in a six DOF block.

## Aircraft Design Process Overview

Three cases for static stability: following a pitch disturbance, aircraft can be either unstable, neutral, or stable.

### Airplane

Now, if the auto climb is no longer engaged or the pilot decides to override with an altitude command, we'll go into the altitude hold mode where we send the altitude command to the gamma controller, and the throttle command will follow the auto throttle. We have the airframe actuators, which again, is a variant subsystem. Low Energy Protection is replaced by Low Speed Stability meaning that the aircraft no longer has automatic stall protection.

## Aircraft Design Process Overview

So how do you do that? Some are directly connected to the control surfaces using cables, others fly-by-wire airplanes have a computer in between which then controls the electrical actuators.

### THE F2 airplane

The yaw axis is defined to be perpendicular to the plane of the wings. Aircraft Control - Wright 1902 Glider One of the major breakthroughs of the Wright brothers was the ability to control and maneuver their.

## Related Books

- [Pioneer Squire Barker family](#)
- [Jämligheten som försvann](#)
- [Chosŏn chōn'gi ūi yuhak sasang](#)
- [Dang nian you xia ren - xian dai Zhongguo de wen ren yu xue zhe](#)
- [Leading Cancer Care](#)