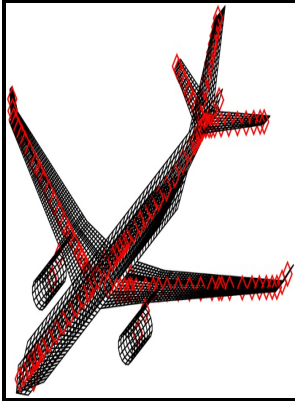


Active controls in aircraft design

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Holland memorial lectures, 1922

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control surfaces military aircraft active flow control

F-22, for example, does not incorporate canards, mostly for stealth reasons. For example, an aircraft may be over-designed with heavily swept wings, with some of the stability then removed by an anhedral design to improve the manoeuvrability. As part of this movement, aircraft companies are increasingly looking to component manufacturers to provide complete aircraft hydraulic systems, instead of a myriad of unconnected parts.

aircraft design

However, far-forward CG positions make the aircraft difficult to control, and in fact the aircraft becomes increasingly nose heavy at lower airspeeds, e.

Airplane

On some aircraft, especially those with a movable horizontal stabilizer, the input to the control surface can be too sensitive. The high aspect ratio wings give improved performance at all speeds and are equipped with modern sculpted winglets. With a lifting-canard type, the main wing must be located further aft of the center of gravity than a conventional wing, and this increases the downward pitching moment caused by the deflection of

Aircraft Design Process Overview

Rather than use the conventional found on most aircraft, an aircraft designer may adopt the canard configuration to reduce the main wing loading, to better control the main wing airflow, or to increase the aircraft's maneuverability, especially at high or during a.

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