

FAA Airframe

Loads, pressure, surfaces, and evidence.

01 Surface -> motion -> axis

Ailerons produce roll about the longitudinal axis. Elevators control pitch about the lateral axis. The rudder controls yaw about the vertical axis.¹

Name the aircraft motion before matching its axis. The wing's location is not the same thing as the axis around which the aircraft rotates.¹

02 Load versus deformation

Tension pulls; compression squeezes; torsion twists; shear tends to slide adjacent material layers. Bending combines tension and compression.¹

Stress is internal resistance to deformation; strain describes the deformation. Do not use the terms as synonyms.¹

Keep going with the full quick sheet.

6 more focused sections: Follow the load path / Static versus pitot-static / Tap response is evidence - not certainty / Inflate, break ice, deflate / Fluid and seal compatibility / Pressure, wheel speed, heat.

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Selective exam-study prompts, not maintenance instructions. Use current aircraft-specific approved data for actual work.

SOURCES - CLICK A LABEL TO CHECK THE ORIGINAL

1. Aviation Maintenance Technician...

FAA-S-ACS-1; FAA-H-8083-31B, 2023 edition | Checked 2026-09-05

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