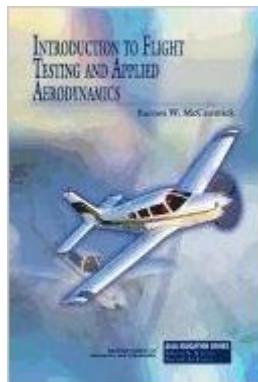


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Introduction To Flight Testing And Applied Aerodynamics (Aiaa Education Series)



Synopsis

An introduction into the art and science of measuring and predicting airplane performance, "Introduction to Flight Testing and Applied Aerodynamics" will benefit students, homebuilders, pilots, and engineers in learning how to collect and analyze data relevant to the takeoff, climb, cruise, handling qualities, descent, and landing of an aircraft. This textbook presents a basic and concise analysis of airplane performance, stability, and control. Basic algebra, trigonometry, and some calculus are used. Topics discussed include: Engine and propeller performance; Estimation of drag; Airplane dynamics; Wing spanwise lift distributions; Flight experimentation; Airspeed calibration; Takeoff performance; Climb performance; and, Dynamic and static stability. Special features: examples containing student-obtained data about specific airplanes and engines; simple experiments that determine an airplane's performance and handling qualities; and, end-of-chapter problems (with answers supplied in an appendix).

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