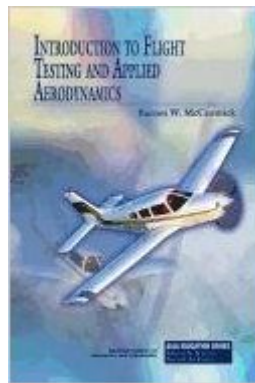


The book was found

# 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).

## Book Information

Series: AIAA Education

Hardcover: 133 pages

Publisher: Amer Inst of Aeronautics & (July 15, 2011)

Language: English

ISBN-10: 1600868274

ISBN-13: 978-1600868276

Product Dimensions: 6.1 x 0.6 x 9.1 inches

Shipping Weight: 12.6 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #872,066 in Books (See Top 100 in Books) #75 in [Books > Engineering & Transportation > Engineering > Aerospace > Aerodynamics](#) #482 in [Books > Textbooks > Engineering > Aeronautical Engineering](#) #1164 in [Books > Science & Math > Astronomy & Space Science > Aeronautics & Astronautics](#)

## Customer Reviews

Barnes (Barney) W. McCormick is the Boeing Professor Emeritus at the Pennsylvania State University. He has a long history with the university, receiving his B.S., M.S., and Ph.D. from the Department of Aeronautical Engineering. He returned to Penn State in 1959 and, in 1969, was named head of the Department of Aerospace Engineering. Later, he accepted a distinguished professorship as the Boeing Professor of Aerospace Engineering. In 1985, Dr. McCormick ventured

into the corporate world, becoming Chief of Aerodynamics for Vertol (now Boeing Helicopters). He has served as consultant to many legal firms as well as industrial and government organizations, including a position as scientific consultant to the U.S. House of Representatives. Dr. McCormick served as Associate Editor for AIAA's Journal of Aircraft, and is an AIAA Fellow. In 1976, he was awarded the AIAA Educational Achievement Award for his innovative contributions to aerospace engineering education.

Has a decent coverage, but not really a stand-alone flight test text book.

[Download to continue reading...](#)

Introduction to Flight Testing and Applied Aerodynamics (Aiaa Education Series) Intake Aerodynamics (Aiaa Education Series) Introduction to Aircraft Flight Mechanics: Performance, Static Stability, Dynamic Stability, Classical Feedback Control, and State-Space Foundations (AIAA Education) The YC-14 STOL Prototype: Its Design, Development, and Flight Test (AIAA Education) Helicopter Flight Dynamics (AIAA Education) Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination and Performance Testing, 9e (Daniels & Worthington's Muscle Testing (Hislop)) DNA Testing Guide Book: Utilize DNA Testing to Analyze Family History Genealogy, Classify and Measure Ethnic Ancestry Research, And Discover Who You Are ... DNA Testing, Ancestry, Ancestry Research) The Student Pilot's Flight Manual: From First Flight to Private Certificate (The Flight Manuals Series) An Introduction to the Mathematics and Methods of Astrodynamics, Revised Edition (Aiaa Education Series) Introduction to Aeronautics, Third Edition (AIAA Education Series) Introduction to Aeronautics: A Design Perspective, 2nd Edition (Aiaa Education Series) Foundations of Aerodynamics: Bases of Aerodynamics Design NASA's Flight Aerodynamics Introduction (Annotated and Illustrated) Fundamentals of Aircraft and Airship Design (AIAA Education Series) Aircraft Design: A Conceptual Approach (Aiaa Education Series) Designing Unmanned Aircraft Systems: A Comprehensive Approach, Second Edition (AIAA Education Series) Thermal Structures for Aerospace Applications (AIAA Education Series) Radar Electronic Warfare (AIAA Education Series) Civil Avionics Systems (AIAA Education Series) Flight Theory And Aerodynamics: A Practical Guide For Operational Safety, 2Nd Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

