Airspeed Indicator

United States. National Advisory Committee for Aeronautics

Speed and Accuracy of Readings as a Function of Design in the Sensitive Airspeed Indicator George E. Long, 1949

<u>Position Errors of the Service Airspeed Installations of 10 Airplanes</u> William Gracey,1949 The position errors of the static systems of 10 service airspeed installations including static-pressure vents on the nose and rear section of the fuselage and pitot-static tubes mounted on the wing, the vertical tail, and the fuselage nose are presented. Tests were conducted at speeds between the stalling speed and 260 miles per hour for four flight conditions. Calibrations are analyzed to show variation of static-pressure error with position of static source, angle of attack, flap setting, and engine power.

Static-pressure Error of an Airspeed Installation on an Airplane in High-speed Dives and Pullouts John A. Zalovcik, Clotaire Wood, 1946 Summary: Tests were made in high-speed dives and pullouts to determine, by combined radar-optical tracking equipment, the static-pressure error of an airspeed-head installation on a P-51B airplane. The installation included a pitot-static head mounted on a boom 95 percent chord ahead of the leading edge of the wing near the tip. The tests were made in dives at flight Mach numbers up to 0.75 and included pull-outs up to 4g normal acceleration. The results indicated that the static-pressure error did not vary with Mach number by more than about 1 percent of the impact pressure over the range of conditions investigated.

Flight Calibration of Four Airspeed Systems on a Swept-wing Airplane at Mach Numbers Up to 1.04 by the NACA Radar-phototheodolite Method Jim Rogers Thompson, Richard S. Bray, George E. Cooper, 1950 Of the systems investigated, a nose-boom installation was found to be most suitable for research use at transonic and low supersonic speeds

because it provided the greatest sensitivity of the indicated Mach number to a unit change in true Mach number at very high subsonic speeds, and because it was least sensitive to changes in airplane normal-force coefficient. The static-pressure error of the nose-boom system was small and constant above a Mach number of 1.03 after passage of the fuselage bow shock wave over the airspeed head.

Electronic Airspeed Indicator of High Precision Oliver Virgil Riley,2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Standard Nomenclature for Airspeeds with Tables and Charts for Use in Calculation of Airspeed William J. Aiken,1946 Symbols and definitions of various airspeed terms that have been adopted as standard by the NACA Subcommittee on Aircraft Structural Design are presented. The equations, charts, and tables required in the evaluation of true airspeed, calibrated airspeed, equivalent airspeed, impact and dynamic pressures, and Mach and Reynolds numbers have been compiled. Tables of the standard atmosphere to an altitude of 65,000 feet and a tentative extension to an altitude of 100,000 feet are given along with the basic equations and constants on which both the standard atmosphere and the tentative extension are based.

Measurement of Aircraft Speed and Altitude William Gracey, 1981 Flight Thru Instruments United States. Office of the Chief of Naval Operations, 1945 Instrument Flying Philip Van Horn Weems, 1942

Instrument Flying for Helicopter Aircraft United States. Department of the Air Force,1962 **Accuracy of Airspeed Measurements and Flight Calibration Procedures** Wilber B.

Huston,1948 This report reviews in detal the sources of error that may enter into the measurement of airspeed by pitot-static methods. Methods of flight calibration of airspeed installations are given. Special attention is given to the problem of accurate measurement of Mach number, air temperature, and true airspeed during high-speed maneuvers. This report also contains an extensive bibliography.

Technical Manual United States Department of the Army,1964 **Slow Flight Sense** ,1961

Flight Test Guide for Certification of Part 23 Airplanes ,1989

Eye Fixations of Aircraft Pilots Richard E. Jones, John L. Milton, Paul Morris Fitts, 1949

NACA Wartime Reports. Series L. Donald D. Baals, Virgil S. Ritchie, United States. National Advisory Committee for Aeronautics, Langley Aeronautical Laboratory, 1943 The determination of flight Mach number from measurements of indicated airspeed and pressure altitude is shown to be relatively simple and leads to direct and accurate computation of true airspeed. A simplified chart is presented for determining flight Mach number and true airspeed for a range of values of indicated airspeed, pressure altitude, and air temperature. A table of standard atmospheric values is included.

Attitude Instrument Flying United States. Department of the Army,1964

TM 1-215 United States. Department of the Army,1964

Report United States. National Advisory Committee for Aeronautics,1948 Flying Training United States. Department of the Air Force,1976

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