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Reviews

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(Jodie Wehner)

CALIBRATION FOR THRUST AND AIRFLOW MEASUREMENTS IN THE CE-22 ADVANCED NOZZLE TEST FACILITY

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No binding. Book Condition: New. This item is printed on demand. Original publisher: Cleveland, Ohio : National Aeronautics and Space Administration, Glenn Research Center, 2010 OCLC Number: (OCoLC)730237522 Excerpt: . . . Figure 13 shows that the 30 and 40-psia PT5 data as well as a repeat 30-psia calibration all fall on the same curve. This curve is divided into three segments for the curve fits, and the resulting equations are shown on the figure. This same curve but with an intercept adjustments is used for the 20 and 14. 5 psia data. A second curve fit is done for the intercepts (plot not included) and the resulting equation for duct pressures below 21 psia is also included in Figure 13. Choked-Flow ASME Nozzle Calibration The CE-22 facility airflow and inlet momentum are measured at station 5, and the respective calibration coefficients are determined using choked-flow ASME nozzles for the airflow and thrust calibration values. The ASME equations are based on Reference 5 and are given in Appendix A, calculations F071 to F077. The CV velocity coefficient calculation is modified to use an industry recommendation of 0. 109 instead of 0. 107 for a constant in the equation. ASME Nozzle Description The calibration nozzles are ASME long-radius flow nozzles as shown in Reference 6, 2 page 217. The smallest of the nozzles (9. 9986 in.) is a low nozzle having a throat-to-inlet diameter ratio of 0. 408. The other five nozzles are high nozzles with ranging from 0. 506 to 2 0. 815. A schematic of the 19. 990-in. nozzle is given in Figure 14; this figure also shows a modification at the nozzle outlet. The nozzle exit contour goes radial outward and then forward (upstream) in 1 8-in. steps and then angles forward...

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