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An Experimental Study of Compressible Flow Through Convergent-Conical Nozzles, Including a Comparison With Theoretical Results

Despite the widespread use of convergent-conical nozzles as propulsion nozzles in turbojet aircraft, little attention has been given to the effect of nozzle shape on their propulsive performance. This paper presents the results of an experimental investigation in which the effect of nozzle angle on the internal characteristics of the flow field and on the propulsive performance of convergent conical nozzles was investigated. In addition, a theoretical solution is described which was developed as a part of this investigation. Fifteen, twenty-five, and forty-degree nozzles were tested at pressure ratios from 1.4 to 7.0. Measurements were made of the nozzle discharge coefficient, thrust coefficient, local flow angle, and wall static pressure. The properties of the internal flow field were seen to be affected by the nozzle angle and at pressure ratios less than the choked pressure ratio by the pressure ratio as well. The results of the theoretical analysis substantiate this behavior and are in reasonable agreement with the experimental data.

Introduction

The efficient operation of a turbojet aircraft depends upon the careful design of its propulsion system. An important component of the propulsion system is the exhaust nozzle which is often of convergent-conical type. Consequently, it is remarkable that little data is available on the effect of nozzle shape on the performance of convergent-conical nozzles. In order to provide this information, this paper presents the results of an

experimental investigation in which the effect of nozzle angle on the performance and internal flow characteristics of convergent-conical nozzles was examined [1], [2].^{*} The effect of nozzle pressure ratio (ratio of nozzle total pressure to ambient pressure) was also investigated and the value of the choked pressure ratio was determined. In this paper the term choked pressure ratio refers to that pressure ratio greater than which the discharge coefficient is constant.

The experimental data are compared with the results of a theoretical solution which was developed as a part of this investigation [3]. The theory provides an explanation for the fact that choking was observed to occur experimentally at pressure ratios greater than the critical pressure ratio. In addition, the theory permits the calculation of the nozzle performance and internal characteristics of the flow field. The results of the theo-

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Nomenclature

a = local speed of sound
 C_D = discharge coefficient
 C_T = thrust coefficient
 i = imaginary unit
 k = ratio of specific heats ($k = 1.4$ used here)
 M = local Mach number
 P = pressure
 R = nozzle throat radius

w = velocity
 x = axial coordinate, measured from exit plane
 y = radial coordinate, measured from center line
 α = nozzle angle (Mach angle in characteristic equations)
 ϕ = local flow angle
 ρ = singularity strength

ρ = density
 ψ = stream function
 ω = transformed velocity
 Ω = complex potential function

Subscripts, Superscripts

a = approach section
 m = Mach state

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