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aircraft applications where the location of the thrust augmenting ejectors on the wings necessitates compact geometries. The experiments described in this Note were not designed to study the acoustic interactions which were, in fact, observed by chance. The previous comments are therefore speculative in nature and have been offered in the interest of stimulating research.

References

¹Ouinn, B. and Toms, H.L., "Calibration of a High Temperature and Pressure Ejector Facility with Back Pressure Effects," ARL 75-0226. June 1974. Aerospace Research Laboratories, Wright-Patterson AFB. Ohio.

²Quinn, B., "Flow in the Orifice of a Resonant Cavity," AIAA

Student Journal, Vol. 1, 1962, pp 1-6.

³ Ouinn, B., "Decomposition Tourbillionnaire d'un Sillage Laminaire," Doctoral Dissertation, Faculte des Sciences, University of Paris, May 1964, Paris, France.

⁴Vlasov, Ye. V and Ginevskiv, A.S., "Acoustic Effect on Aerodynamic Characteristics of a Turbulent Jet," FTD-MT-24-232-68. Aug. 1968. Foreign Technology Division, Wright-Patterson AFB. Ohio

⁵Lavrov, N.V., Rosenfeld, E.I., Zhebrak, Y.A., and Smolenskiv, V.G., "Acoustical Method for Intensification of Processes of Mixing and Combustion of Natural Gas," FTD-HT-23-36-71, Feb. 1971, Foreign Technology Division, Wright-Patterson AFB, Ohio.

⁶Simcox, C.D. and Hoglund, R.F., "Acoustic Interactions with

Turbulent Jets," ASME Paper No. 70-Flcs-6, June 1970.

⁷Glass, D.R., "Effects of Acoustic Feedback on the Spread and Decay of Supersonic Jets," AIAA Journal, Vol. 6, Oct. 1968, pp. 1890-1897.

⁸Powell, A., "On the Mechanism of Choked Jet Noise," Proceedings of the Physics Society, Vol. B66, 1953, pp 1039-1056.

⁹Middleton, D. and Richards, E.J., "Discrete Frequency Noise from Ejectors," Proceedings of the Fourth International Congress on Acoustics, Paper No. L21, Aug. 1962.

¹⁰ Ali, M.R.M. and Anderson, J.S., "Noise Generated by Air Flow Though Circular Nozzles of Different Exit Areas," Proceedings of the Seventh International Congress on Acoustics, Paper No. 25N14, 1971, pp. 537-540.

¹¹Mamin, V., Pykhov, F. and Rimski-Korsakov, A., "Discrete Tone Radiation Arising from a Supersonic Jet Flowing into an Unlimited Gaseous Medium and into a Cylindrical Ejector," Proceedings of the Seventh International Congress on Acoustics, Paper No. 24N11, 1971, pp. 469-472.

¹²Barna, P.S., "Performance and Noise Generation Studies of Supersonic Air Ejectors," Proceedings of the Seventh International Congress on Acoustics, Paper No. 24N15, 1971, pp. 481-483.

¹³Rosfjord, T.J. and Toms, H.L., "Recent Observations Including Temperature Dependence on Axisymmetric Jet Screech," AIAA Journal, Vol. 13, Oct. 1975, pp. 1394-1396.

¹⁴Westley, R. and Woolley, J.H., "An Investigation of the Near Noise Fields of a Choked Aisymmetric Air Jet." Proceedings of the AFOSR-UTIAS Symposium on Aerodynamic Noise. University of Toronto, Press, 1968, pp. 147-167.

Errata

A Finite-Element Method for Calculating Aerodynamic Coefficients of a Subsonic Airplane

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THE sentence preceding Eq. (12) should read: For an axisymmetric body with angle of attack α and yaw angle β , the pressure coefficient at surface (r, θ, x) by neglecting highorder term $(u_x/V_{\infty})^2$, is

$$C_{p} = -\frac{2u_{x} \cos \alpha \cos \beta}{V_{\infty}} + \frac{2 \sin \alpha \cos \beta}{V_{\infty} \cos \theta_{0}} \times \left[u_{r} \cos(\theta - \theta_{0}) - u_{\theta} \sin(\theta - \theta_{0})\right] - \frac{u_{r}^{2} + u_{\theta}^{2}}{V_{\infty}^{2}}$$
(12)

Both the denominators of Eqs. (A4) and (A9) should read 2π instead of 4π .

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