

No attempt was made to accelerate convergence or to achieve higher accuracy by means of improved integration schemes since only an exhibition of a method rather than accurate solution of a trivial problem is intended. The MWR technique is useful when appropriately applied but the low accuracy achieved by Stoy, with considerable computational difficulties, cannot be considered to be an endorsement of a computing technique in fluid mechanics.

References

¹ Stoy, R. L., "Method of Weighted Residuals Applied to Free Shear Layers," *AIAA Journal*, Vol. 8, No. 8, Aug. 1970, pp. 1527-1528.

² Crawford, D. R. and Holt, M., "Method of Integral Relations as Applied to the Problem of Laminar Free Mixing," *AIAA Journal*, Vol. 6, No. 2, Feb. 1968, pp. 372-374.

³ Rosenhead, L., ed., *Laminar Boundary Layers*, Oxford University Press, Oxford, 1963, p. 211.

⁴ Emmons, H. W. and Leigh, D. C., "Tabulation of the Blasius Function with Blowing and Suction," CP 157, 1954, Aeronautical Research Council, England.

⁵ Kassoy, D. R., "On Laminar Boundary Layer Blowoff," *Journal Applied Mathematics*, Vol. 18, No. 1, Jan. 1970, pp. 29-40.

⁶ Saaty, T. L., *Modern Nonlinear Equations*, McGraw-Hill, New York, 1967, Chap. 6.

Reply by Author to A. Wortman and W. J. Franks

R. Stoy*

University of Connecticut, Storrs, Conn.

THE comments of A. Wortman and W. J. Franks are well taken and, in general, I agree with them. However, I would like to point out that I have not recommended use of the MWR and, in fact, would not do so for such a trivial problem as the free shear layer. My only purpose in examining the shear layer was to determine some of the specific problems associated with the use of the MWR in situations where no boundary was present. Because of the difficulties in extending the method to complicated flows, such as those with compressibility where some of the dependent variables are double-valued, I do not recommend the use of the MWR over other numerical schemes.

Received May 24, 1971.

* Associate Professor of Aerospace Engineering. Member AIAA.