for V/STOL testing indicates² that by using a streamwise distributed porosity in a slotted tunnel it becomes possible to eliminate pitching moment interference simultaneously with lift interference. The motivation of the research is to search for an optimum porosity distribution for minimizing both pitching moment and lift interferences, and to assess wind-tunnel interference for a given wall porosity distribution.

The zero streamline curvature $(d/dx) \delta(x)|_{x=0} = 0$ is suggested by Mokry as the criterion to choose the optimum porosity. This criterion certainly gives a small variation in δ near x=0, but the magnitude of δ is large. By using a streamwise distributed porosity such as the gaussian distribution given in the Note, not only the zero streamline curvature condition is satisfied in the interval -0.5 < x < 1.5, but also the magnitude of δ is reduced to half of those obtained from uniformly distributed porosity at $\beta/R_0 = 0.782$.

Furthermore, the gaussian distribution is chosen in the study for its mathematical simplicity, and has already indicated a large reduction in the lift interference. It is not our intention to say that the gaussian distribution is the final optimum distribution. As a

Errata

Errata: "Atmospheric Transport, Dispersion and Chemical Reactions in Air Pollution: A Review"

MARTIN I. HOFFERT
Riverside Research Institute, New York

Riverside Research Institute, New York [AIAA J. 10, 377-387 (1972)]

THE following corrections should be made to the above article: Equation (13) should read

$$\bar{c}_{i}(x, y, z) = \frac{Q_{i}/\rho}{2\pi\sigma_{y}\sigma_{z}\bar{u}} \exp\left[-\frac{x}{\bar{u}\tau_{c}}\right] \exp\left[-\frac{1}{2}\left(\frac{y}{\sigma_{y}}\right)^{2}\right] \times \left\{ \exp\left[-\frac{1}{2}\left(\frac{z-h}{\sigma_{z}}\right)^{2}\right] + \exp\left[-\frac{1}{2}\left(\frac{z+h}{\sigma_{z}}\right)^{2}\right] \right\}$$

Equation (16) should read

$$\begin{split} \frac{d\bar{c}_{ik}}{dt} &= -\frac{\bar{c}_{ik}}{\vartheta_k}\frac{d\vartheta_k}{dt} + \frac{1}{\vartheta_k}\sum_{j=0}^{L}q_{jk}\,\bar{c}_{ij} - \frac{\bar{c}_{ik}}{\vartheta_k}\sum_{j=0}^{L}q_{jk} \\ &+ \frac{Q_{ik}}{\rho\vartheta_k} + \dot{c}_{ik}(\bar{c}_1,\ldots,\bar{c}_N,t) \end{split}$$

The author regrets that these typographical errors were overlooked during proofreading.

Received May 2, 1972.

Index categories: Atmospheric, Space and Oceanographic Sciences; Boundary Layers and Convective Heat Transfer—Turbulent; Thermochemistry and Chemical Kinetics.

continuing effort, a numerical method³ has been developed to optimize the porosity distribution. The preliminary result has shown that the streamwise porosity distribution does reduce pitching moment interference simultaneously with lift interference. The computation would certainly be useful in the development of a new generation wind-tunnel wall.

References

¹ Lo, C. F., "Wind-Tunnel Wall Interference Reduction by Streamwise Porosity Distribution," *AIAA Journal*, Vol. 10, No. 4, April 1972, pp. 547-550.

pp. 547-550.

² Binion, T. W., Jr., "An Investigation of Several Slotted Wind Tunnel Wall Configurations with a High Disc Loading V/STOL Model," AEDC-TR-71-77, May 1971, Arnold Engineering Development Center, Arnold Air Force Station, Tenn.

³ Glassman, H. N. "A Modification to the Method of Block Cyclic Reduction for Computing the Lift Interference in a Wind Tunnel with Perforated Walls," M.S. thesis, 1972, University of Tennessee, Knoxville, Tenn.

Errata: "Failure of Existing Theories to Correlate Experimental Nonacoustic Combustion Instability Data"

THOMAS L. BOGGS

Naval Weapons Center, China Lake, Calif.

AND

MERRILL W. BECKSTEAD

Hercules Inc., Magna, Utah

[AIAA J, **8**, 626–631 (1970)]

THE equations on p. 630 should read

$$f = 1/\tau' = \bar{r}/[\delta + (2/3)^{1/2}D] = \bar{r}/D[\delta/D + (2/3)^{1/2}]$$

so that

$$\delta/D = \{\pi/6[1 + (\rho_{ox}/\rho_f)((1-x)/x)]\}^{1/3} - (2/3)^{1/2}$$

for uniform-sized spherical oxidizer crystals.

$$K = \frac{1}{(\pi/6\{1 + (\rho_{ox}/\rho_f)[(1-x)/x]\})^{1/3}}$$

where $x = \frac{9}{2}$ oxidizer.

A similar expression can be derived for bimodal propellants

$$K_1 = \left\{ \frac{x_1}{\pi/6[x_T + (\rho_{ox}/\rho_f)(1 - x_T)]} \right\}^{1/3}$$

Received July 20, 1972.

Index category: Combustion Stability, Ignition, and Detonation.

Announcement: 1972 Author and Subject Indexes

The indexes of the four AIAA archive journals (AIAA Journal, Journal of Spacecraft and Rockets, Journal of Aircraft, and Journal of Hydronautics) will be combined and mailed separately early in 1973. Subscribers are entitled to one copy of the index for each subscription which they had in 1972. Extra copies of the index may be obtained at \$5 per copy. Please address your request for extra copies to the Circulation Department, AIAA, Room 280, 1290 Avenue of the Americas, New York, New York 10019. Remittance must accompany the order.

Ruth F. Bryans
Director, Scientific Publications