Authors' Closure[1]

Table 3 in the paper shows good agreement between theoretical and experimental values of the velocity ratio C_{2u}/U_2, while Table 2 shows appreciable differences between theoretical and experimental values of the slip factor $C_{2u}/C_{2u\infty}$. Tsu considers that these two tables are contradictory.

The predicted slip factors $C_{2u}/C_{2u\infty}$ listed in Table 2 are based on conventional methods and those in the last line "Senoo and Nakase" in the table are predictions for invicid fluid based on the method of reference [11], which are equal to the products of $U_2/C_{2u\infty}$ and $C_{2u}(p)/U_2$ in the first line in Table 3. According to the present theory, these values must be corrected for the viscous effects to get the slip factors in the last line in Table 3.

[1] Reply to the discussion made by T. C. Tsu, JOURNAL OF ENGINEERING FOR POWER, Series A, Vol. 97 No. 3, July 1975, p. 460, relative to the paper by Y. Senoo, S. Maruyama, T. Koizumi, and Y. Nakase, "Viscous Effects on Slip Factor of Centrifugal Blowers," Series A, Vol. 96 No. 1, Jan. 1974, pp. 59–65.