

INDUCTION OPERATION
PERFORMANCE CALCULATIONS

Subsonic Jet
Assumed

Table with columns (1) through (9) for subsonic jet performance calculations. Includes parameters like Mach number, pressure ratio, and area ratios.

PERFORMANCE CALCULATIONS

Table with columns (9) through (16) for performance calculations. Includes Mach number, pressure ratio, and area ratios.

PERFORMANCE CALCULATIONS

Table with columns (17) through (24) for performance calculations. Includes Mach number, pressure ratio, and area ratios.

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Table with columns (25) through (32) for performance calculations. Includes Mach number, pressure ratio, and area ratios.

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Table with columns (33) through (40) for performance calculations. Includes Mach number, pressure ratio, and area ratios.

PERFORMANCE CALCULATIONS

Table with columns (41) through (48) for performance calculations. Includes Mach number, pressure ratio, and area ratios.

NOTES: For M=1.0 a slightly modified form of carrying out the calculations was used in order to check the form used for M=0.4, 0.6 and 0.8. The smoothness of the curves testifies as to the accuracy of both methods.

The condensed results of this calculation are:

Handwritten equations: P0/P1 = 1.895, P0/P1 = P2/P1 * (P2/P1)^{1/2}, P0/P1 = P2/P1 * (P2/P1)^{1/2}

Handwritten notes and calculations: A = 1.0, P0/P1 = 1.895, P0/P1 = P2/P1 * (P2/P1)^{1/2}