

2.40 Contd. Thus, $T_t = \left(1 + \frac{\gamma-1}{2} M^2\right) T$

which defines the relation between the total temperature (T_t), the static temperature (T), and Mach number (M) for the adiabatic flow of a perfect gas.

The entropy change equation is:

$$s - s_r = C_p \ln \frac{T}{T_r} - R \ln \frac{p}{p_r}$$

For the isentropic flow of a perfect gas:

$$\frac{\gamma R}{\gamma-1} \ln \frac{T}{T_r} - R \ln \frac{p}{p_r} = 0$$

Thus, $\ln \left(\frac{T}{T_r}\right)^{\frac{\gamma}{\gamma-1}} = \ln \left(\frac{p}{p_r}\right)$

Designating the stagnation condition of a gas which is brought to rest through an isentropic process (i.e., one which is both adiabatic and reversible) represented by the symbol "t" as the reference condition "r".

$$\frac{p}{p_{t1}} = \left(\frac{T}{T_t}\right)^{\frac{\gamma}{\gamma-1}} = \left[\frac{1}{1 + \frac{\gamma-1}{2} M^2}\right]^{\frac{\gamma}{\gamma-1}}$$

This equation can be used to calculate the static pressure of a perfect gas which has undergone an isentropic expansion from a stagnant gas (whose pressure is p_{t1} and whose temperature is T_t) to a Mach number M_1 . Conditions are those for the isentropic flow of a perfect gas.

Aerodynamics For Engineers 6th Solution Manual

Christian Drosten



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