

Thus the specific thrust of the ideal turbojet is given by Eqs. (5.48), (5.50), and (5.53).

Step 8:

$$S = \frac{\dot{m}_f}{F} = \frac{f}{F/\dot{m}_C} = \frac{f}{(\dot{m}_0/\dot{m}_C)(F/\dot{m}_0)}$$

$$S = \frac{f}{(1 + \alpha)(F/\dot{m}_0)} \quad (5.54)$$

Step 9: The thermal efficiency of an ideal turbofan engine is the same as that of an ideal turbojet engine. That is [Eq. (5.22)],

$$\eta_T = 1 - \frac{1}{\tau_r \tau_c}$$

This may seem surprising since the net power out of a turbojet is $\dot{m}_0(V_9^2 - V_0^2)/(2g_c)$, while for a turbofan it is $\dot{m}_C(V_9^2 - V_0^2)/(2g_c) + \dot{m}_F(V_{19}^2 - V_0^2)/(2g_c)$. The reason that the thermal efficiency is the same is that power extracted from the core stream of the turbofan engine is added to the bypass stream without loss in the ideal case. Thus the net power out remains the same.

One can easily show that the propulsive efficiency of the ideal turbofan engine is given by

$$\eta_P = 2 \frac{V_0/V_0 - 1 + \alpha(V_{19}/V_0 - 1)}{V_0^2/V_0^2 - 1 + \alpha(V_{19}^2/V_0^2 - 1)} \quad (5.55)$$

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Apollo 13 — Wikipédia

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