Total After-tax Cash Flows

Rearranging terms, we get

$$C = X(1 - T_C)(1 - T_E) + r_D D[(1 - T_D) - (1 - T_C)(1 - T_E)]$$

By discounting the perpetuity payments at the after-(personal) tax rate of debt we get the gain from debt. The value of the levered firm is:

 $V_L = V_U + T_g D$ where $T_g = 1 - \frac{(1 - T_C)(1 - T_E)}{(1 - T_D)}$

