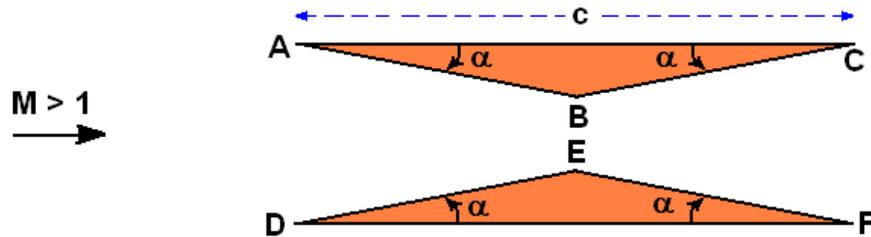


Problem 340E

The following biplane arrangement is deployed in a supersonic stream of Mach number, M :



The oncoming stream is parallel with the sides AC and DF . The flow is to be analyzed using the supersonic theory for small angles of turn. If the angles \hat{BDF} and \hat{EAC} are both equal to the Mach angle, $\mu = \arcsin(1/M)$, find the drag coefficient for the foils.