



Fig. 4.17 Conical shock charts for $\gamma = 1.4$ from Shapiro [6]. **a** Shock angle versus approach Mach number, with cone angle as parameter. **b** Ratio of surface pressure to free stream stagnation pressure versus free stream Mach number. **c** Surface Mach number versus free stream Mach number, with cone angle as parameter. **d** Ratio of surface stagnation pressure to free stream stagnation pressure, with cone angle as parameter. **e** Regions of shock attachment and detachment for cone and wedge. **f** Pressure drag coefficient based on projected frontal area