

post-shock

normal shock effective mean fre path

upstream conditions ahead of normal shock

v₁ in shock frame

$$P_{1}, T_{1}, \rho_{1}$$

viscous effects dissipate kinetic energy → heat & entropy

downstream conditions behind normal shock

v₂ in shock frame

$$P_2$$
, T_2 , ρ_2

slower, denser warmer



viscous effects small; fluid variables linked by jump conditions