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## NOMENCLATURE

$l$ = span

$c$ = chord length (m)

$\alpha$ = angle of attack

$D$ = Drag Force

$L$ = Lift Force

$M$ = Moment

$U_\alpha$ = Free Stream Velocity

$\rho$ = Air density

$\mu$ = Dynamic viscosity (Ns/m<sup>2</sup>)

$P_\alpha$ = Free stream pressure (Pa)

$p$ = local pressure (Pa)

$Re$ = Reynolds no ( $\rho U_\alpha c / \mu$ )

$C_p$ = pressure coefficient ( $(p - p_\alpha) / (0.5 \rho U_\alpha^2)$ )

$C_l$ = lift coefficient ( $L / (0.5 \rho U_\alpha^2 C_l)$ )

$C_d$ = drag coefficient ( $D / (0.5 \rho U_\alpha^2 C_d)$ )

NACA-National advisory committee of aeronautics

Cfd- computational fluid dynamics