Constants	Units	Description
$C_{L_{ht,max}}$	$[-]$	Max horizontal tail lift coefficient
$C_{L_{w,max}}$	$[-]$	Max lift coefficient, wing
$C_{m_{ac}}$	$[-]$	Moment coefficient about aerodynamic centre (wing)
$S.M._{min}$	$[-]$	Minimum allowed stability margin
V_{ne}	$[\frac{\mathrm{m}}{\mathrm{s}}]$	Never exceed velocity
Δx_{CG}	$[\mathrm{m}]$	CG travel range
$\alpha_{ht,max}$	$[-]$	Max angle of attack, htail
η_{ht}	$[-]$	Tail efficiency
$\lambda_{ht_{min}}$	$[-]$	Minimum horizontal tail taper ratio
ρ_0	$[\frac{\mathrm{kg}}{\mathrm{m}^3}]$	Air density (0 ft)
$\tan(\Lambda_{ht})$	$[-]$	tangent of horizontal tail sweep
g	$[\frac{\mathrm{m}}{\mathrm{s}^2}]$	Gravitational acceleration