**Input Parameters (SI UNITS)**

Cbar = 0.2409444

b = 1.8415 (m)

S = 16.976344 (m^2)

Ix = 1.7398669425170001 (kg/m^2)

Iy = 1.386540784747 (kg/m^2)

Iz = 1.712235372696 (kg/m^2)

Jxy = 0

Jxz = 0

Jyz = 0

m = 2.424

T = 0.05 N

CDo = 0.076

CDa = 0.53

CDq = 0

CDde = 0

CDih = 0

CL0 = 0.975

CLa = 5.849899088

CLq = 9.310

CLde = 0.001604

CLih = 0

Cm0 = -0.3567

Cma = -2.54508

Cmq = -17.0684

Cmde = -7.288023154

Cmih = 0

CY0 = 0

CYB = -0.504374747

CYp = -0.119633588

CYr = 0.0363

CYda = 0.000071

CYdr = -0.00078

Cl0 = 0

ClB = -0.05294703

Clp = -0.496124155

Clr= 0.213369

Clda= 0.000641

Cldr= 0.000002

Cn0 = 0.978

Cnb= 0.029747969

Cnp= -0.07993

Cnr = -0.038399631

Cnda = 0.000006

Cndr= 0.000164

V= 10 m/s

alpha = 0.087 rad

beta = 0 rad

p = 0

q = 0

r = 0

psi = 0.08 rad

theta = 0

phi = 0

xe = 0

ye = 0

H= 200 m