

```
I_xx=2.547*10^-3;
I_yy=3.613*10^-3;
I_zz=1.074*10^-3;
l_b=0.083;
l_c=0.04;
l_f=0.093;
l_l=0.185;
l_t=0.2;
l_y=0.4;
b=4.95*10^-5;
d=7.5*10^-7;
m=2.03;

g=9.8; % it should be positive
X_ref=1;
Y_ref=-1;
Z_ref=2;
Psi_ref=pi/6;

%%% SMC
lambda_x=1;
lambda_y=1;
lambda_z=1;
lambda_phi=6;
lambda_theta=6;
lambda_psi=6;

K_k_x=1;
K_k_y=1;
K_k_z=0.1*20;
K_k_phi=1*20;
K_k_theta=1*20;
K_k_psi=0.1*10;
```