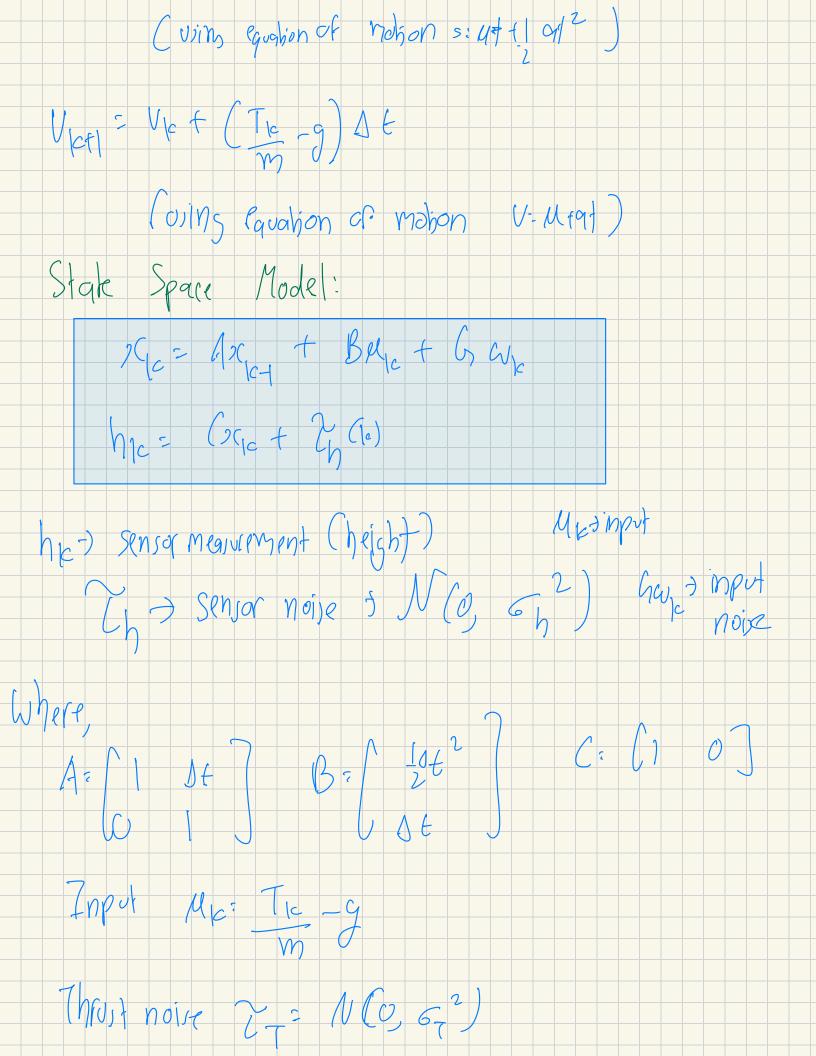
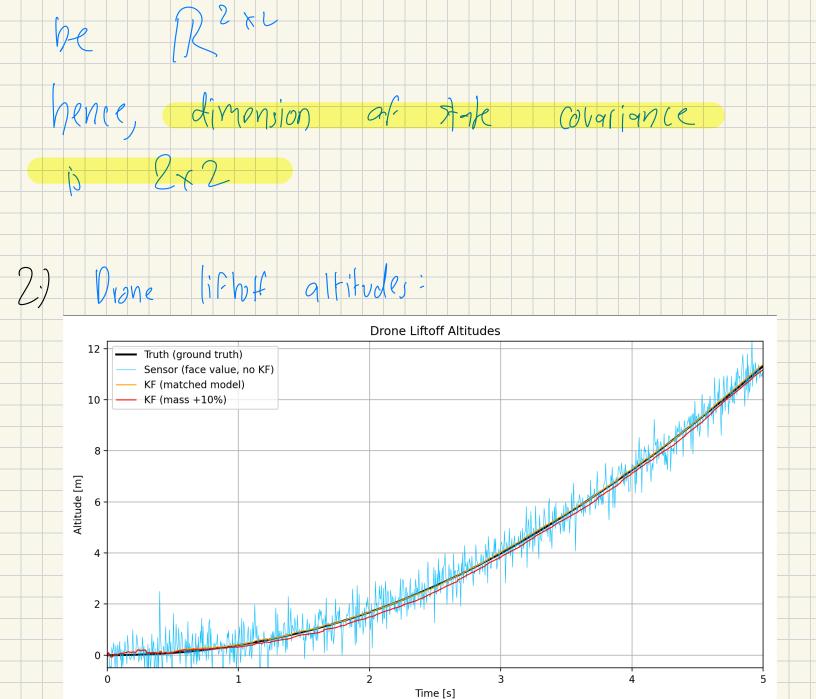
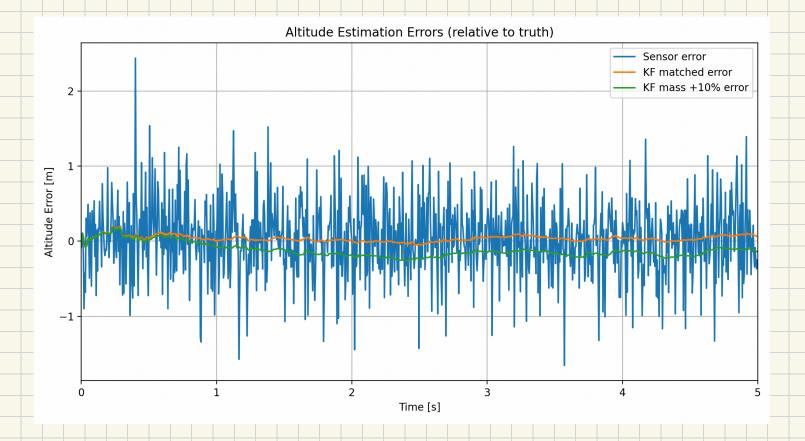
Sugareel Bhatt Horneworle 3 cdb 2183 sampling rate DE ) Mass freahn, m as point mass, upwards as the 2 2(f): 1 (T(e) + 2(f))-9 Where T(1) 1) thrust wice 2 (4) is thrust import noise Stak vector x(+) = 2(+) = height + Vert 1 (Te-g).06



inprinoise we. NCO, Ea) Where Euc (67) The input rouginge Marky can be computed as Q-BEuBi 5 0.5t2 (67) (0.5t2 1E)  $\frac{2}{5} \left( \frac{3}{7} \right) \frac{2}{5} \left( \frac{3}{5} \right) \frac{3}{5} \left( \frac{3}{5} \right$ The Jenson director megane, allibrate, so sensor noise Sz. 6n2 as the state vector is 2x1, the state ovorigine COV (xx)- TE (Cx(c-Mx) (x(c-Mx)) should



Eshmahan error plot:



Effect at model mismatch:

The effect of the model mismatch is that it adds
a bias he the estimation. The prediction step
Underestimate upward acceleration, hence the filter
thinks that the drang should rise slower than it
actually does.