ose - Call back: The FSKF validation > T ⇒ =TE TE & y-ref, x-pose 4 A TWIST_callback: { in {I} → \ i & D thust-pub & corrol-pub 2 your rest: - Set in part ? - vser random give I halp modifying. 1 x. y. 8, p, 0 p UVW PQJ why your value a revol? A PID & MPC ctrl allown (+) different a why don't use default conoral allocation Cothouse- manager. $A\dot{v} + C(v)v + O(v)v + \delta(\eta) = T + \omega$ = MxLV+M-V+MxL3+CW)V+DW)V+q(y)= T+S set in 8 → NY 用透烟类prophytical Ly W/ SMU, we can use +1/3 ESKF a equation of motion for my SMU: v= R(~-ba-92)+3 R= R(W-69-49) f = P + SP V = V + SV R = R = SR | SP = SV | SV = -R(2-be)^80-R6be-91-64 80 = - (W-by) 80 - 8by - My be = 57 + Sbg (000-)

be = 57 + Sbb (cccl)

d = 3 + Sb

entire constitution of the con x = IP. R. V. bo. ba. B. EIT $3 = \begin{bmatrix} R \\ R \end{bmatrix} = \begin{bmatrix} A \\ An_1(i+1) - \frac{1}{2} + Aa_1 \cdot C(x_1) \cdot D(x_1) \cdot J(x_1) \end{bmatrix}$ where $\frac{1}{An_1} = \frac{1}{An_1} \frac{1}{An_2} \frac{1}{An_2$ gent sunt of apartin and apartin population of apartin populations of apartin populations of apartin populations of apartin populations of the population of perov = Pc+ PVL (V) Const = per Const
$$\begin{split} \frac{\partial D(u)v}{\partial Sv} &= \frac{\partial D_L V}{\partial Sv} + \frac{\partial}{\partial Sv} D_{0L}(V) v \\ &= D_L v = D_L (\nabla + \delta v) \\ &= \frac{\partial D_L V}{\partial Sv} = D_L \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{total}}} \frac{1 \log \delta_{0L} \delta(v + \delta v)}{1 \log \delta_{0L} \delta(v + \delta v)} \\ &= \sum_{\substack{T \in V_{total} \\ T \in V_{to$$

ba= Mba Ba = 1 b a j = 0

= 8xx+1 = f(6xx)+w , w~N(0@)

$$\frac{365}{687} = \frac{365}{100} =$$

(9) = (Ta)

8- (2 + et)

= 4x f(x) - 4x J(x) + DL + AQL

= -[Va]x + DL

Coss

 $[V]_{x} = \begin{bmatrix} \circ & -V_3 & V_2 \\ V_3 & \circ & -V_1 \\ -V_2 & V_1 & \circ \end{bmatrix}$

$$[a]_{x} = \begin{bmatrix} 0 & -a_{3} & a_{2} \\ a_{3} & 0 & -a_{1} \\ -a_{2} & a_{3} & 0 \end{bmatrix} \begin{bmatrix} -a_{1} & a_{1} & a_{2} \\ -a_{2} & a_{3} & 0 \end{bmatrix} \begin{bmatrix} -a_{1} & a_{1} & a_{2} \\ -a_{2} & a_{3} & 0 \end{bmatrix} \begin{bmatrix} -a_{1} & a_{2} & a_{3} \\ -a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{3} & a_{4} \end{bmatrix} \begin{bmatrix} a_{1} & a_{2} & a_{4} \\ a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{3} & a_{4} \end{bmatrix}$$

$$= \begin{bmatrix} a_{1} & a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{3} & a_{4} & a_{4} \\ -a_{2} & a_{3} & a_{4} & a_{4} \end{bmatrix} \begin{bmatrix} a_{1} & a_{2} & a_{4} \\ a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{3} & a_{4} \end{bmatrix} \begin{bmatrix} a_{1} & a_{2} & a_{4} \\ a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{3} & a_{4} \end{bmatrix} \begin{bmatrix} a_{1} & a_{2} & a_{4} \\ a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{3} & a_{4} \end{bmatrix} \begin{bmatrix} a_{1} & a_{2} & a_{4} \\ a_{2} & a_{3} & a_{4} \\ -a_{2} & a_{4} &$$

T=Kt

3-h×

×t K(3-hx)

$$x = -0.22(723)$$
 $y = 1.637$