GAUSS- MARKON

$$\dot{x}(t) = A(t)x(t) + B(t)u(t) + w(t)$$

 $\dot{y}(t) = C(t)x(t) + V(t)$

$$X_{K} = \begin{bmatrix} X^{T} & V_{X}^{T} & Y^{T} & V_{Y}^{T} & Z^{T} \\ U_{K} &= \begin{bmatrix} \alpha_{X}^{T} & \alpha_{Y}^{T} & \alpha_{Z}^{T} \end{bmatrix}^{T}$$

$$Z_{K} = \begin{bmatrix} X^{T} & Y^{T} & Z^{T} \end{bmatrix}^{T}$$

$$Z_{K} = \begin{bmatrix} X^{T} & Y^{T} & Z^{T} \end{bmatrix}^{T}$$

$$W = \begin{bmatrix} 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{bmatrix} E_{A} = \omega E_{A}$$

$$rac{1}{2} R_{q} = \begin{bmatrix} 0.035 & 0 & 0 \\ 0 & 0.025 & 0 \\ 0 & 0 & 0.035 \end{bmatrix}$$

$$V = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \in \rho = V \in \rho$$

FOR THE RECURSING NAVIONTOS: