

$$\begin{bmatrix} x_k & y_k & z_k & x_k^* & y_k^* & z_k^* & x_k^{**} & y_k^{**} & z_k^{**} & \theta_{xk} & \theta_{yk} & \theta_{zk} & \theta_{xk}^* & \theta_{yk}^* & \theta_{zk}^* \end{bmatrix}$$

$$x_k = x_{k-1} + x_{k-1}^* T_s + \frac{1}{2} x_{k-1}^{**} T_s^2$$

$$x_k^* = x_{k-1}^* + x_{k-1}^{**} T_s$$

$$x_k^{**} = x_{k-1}^{**}$$

$$y = y_{k-1} + y_{k-1}^* T_s + \frac{1}{2} y_{k-1}^{**} T_s^2$$

$$y_k^* = y_{k-1}^* + y_{k-1}^{**} T_s$$

$$y_k^{**} = y_{k-1}^{**}$$

$$z_k = z_{k-1} + z_{k-1}^* T_s + \frac{1}{2} z_{k-1}^{**} T_s^2$$

$$z_k^* = z_{k-1}^* + z_{k-1}^{**} T_s$$

$$z_k^{**} = z_{k-1}^{**}$$

$$\theta_{xk} = \theta_{xk-1} + \theta_{xk-1}^* T_s$$

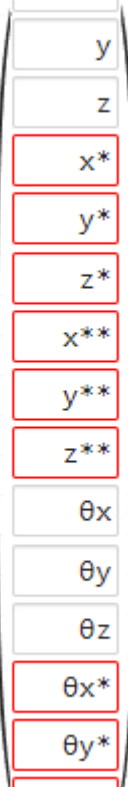
$$\theta_{xk}^* = \theta_{xk-1}^*$$

$$\theta_{yk} = \theta_{yk-1} + \theta_{yk-1}^* T_s$$

$$\theta_{yk}^* = \theta_{yk-1}^*$$

$$\theta_{zk} = \theta_{zk-1} + \theta_{zk-1}^* T_s$$

$$\theta_{zk}^* = \theta_{zk-1}^*$$

[illegible]