$$M(9)\ddot{9} + C(9, \dot{9})\dot{9} + N(9) = T$$
  
 $Y(2, \dot{2}, \dot{3})\dot{9} = T$ 

Linearity: 
$$M(9) \stackrel{?}{\circ} + C(9, \stackrel{?}{\circ}) \stackrel{?}{\circ} = \left[ \begin{array}{c} a \stackrel{?}{\circ}_{1} + 2b \stackrel{?}{\circ}_{1} \cos \theta_{2} + d \stackrel{?}{\circ}_{2} + b \stackrel{?}{\circ}_{2} \cos \theta_{2} \\ d \stackrel{?}{\circ}_{1} + b \stackrel{?}{\circ}_{1} \cos \theta_{2} + d \stackrel{?}{\circ}_{2} + b \stackrel{?}{\circ}_{2} \cos \theta_{2} \end{array} \right]$$

$$= \left[ \begin{array}{c} \stackrel{?}{\circ}_{1} & 2 \stackrel{?}{\circ}_{1} \cos \theta_{2} + 6 \stackrel{?}{\circ}_{2} \cos \theta_{2} \\ 0 & \stackrel{?}{\circ}_{1} \cos \theta_{2} + 6 \stackrel{?}{\circ}_{2} \cos \theta_{2} \end{array} \right] \left[ \begin{array}{c} a \\ b \\ d \end{array} \right] = Mat^{!} \cdot param-veutr$$

$$C(2, \stackrel{?}{\circ}) \stackrel{?}{\circ} = \left[ \begin{array}{c} -b \stackrel{?}{\circ}_{1} & S(0) \stackrel{?}{\circ}_{1} - b \stackrel{?}{\circ}_{2} & S(0) \stackrel{?}{\circ}_{2} - b \stackrel$$

while control: 
$$Y(\theta,\hat{\mathbf{e}},\hat{\mathbf{e}}') \boldsymbol{\theta} = \tau \qquad \theta: \text{ actual sys. param.}$$

$$Y(\theta,\hat{\mathbf{e}},\hat{\mathbf{e}}') \boldsymbol{\theta} = \tau \qquad \hat{\theta}: \text{ model param.}$$

$$Y(\theta,\hat{\mathbf{e}},\hat{\mathbf{e}}') \boldsymbol{\theta} = Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = \tau \qquad \hat{\theta}: \text{ model param.}$$

$$Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = \tau \qquad \hat{\theta}: \text{ model param.}$$

$$Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = \tau \qquad \hat{\theta}: \text{ model param.}$$

$$Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = T \qquad \hat{\theta}: \text{ model param.}$$

$$Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = T \qquad \hat{\theta}: \text{ model param.}$$

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$$Y(\theta,\hat{\mathbf{e}}',\hat{\mathbf{e}}') \boldsymbol{\theta} = T \qquad \hat{\theta}: \text{ model pa$$

$$\dot{X} = AX + B\Phi \tilde{\theta}$$

$$\dot{X} = \frac{1}{\hat{x}_{1}} \times \frac{1}{\hat{x}_{2}}$$

$$\dot{A} = \begin{bmatrix} 0 & I \\ -k_{p} & -k_{D} \end{bmatrix}$$

$$\dot{B} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$\dot{B} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$\dot{B} = -M^{+}Y(2, 2, 3)$$

$$\dot{B} = \frac{1}{\hat{x}_{2}}$$

$$\dot{B} = \frac{1}{\hat{x}_{2}}$$