





$$U_{1}(t) = \sin \left(w_{1}t \right)$$

$$y_{2}(t)$$

$$y_{3}(t)$$

$$y_{4}(t)$$

$$y_{5}(t)$$

$$a e^{\lambda t} = f(t)$$
 $f_1(x_1, x_2) = 0$
 $f_2(x_1, x_2) = 0$

$$A(x_0) = \begin{bmatrix} \frac{\partial x_1}{\partial x_1}(x_0) & \frac{\partial x_2}{\partial x_2} & (x_0) \\ \frac{\partial x_1}{\partial x_2}(x_0) & \frac{\partial x_2}{\partial x_3} & (x_0) \end{bmatrix}$$

$$e = \begin{bmatrix} e_{1}(x) \\ e_{2}(x) \end{bmatrix} / \frac{de}{dx} = Ae$$

$$f = e^{\lambda_{1}x} \begin{bmatrix} q \\ d \end{bmatrix}$$

$$f_{2} = e^{\lambda_{2}x} \begin{bmatrix} c \\ d \end{bmatrix}$$