

$$\underbrace{\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \\ \dot{x}_3 \end{bmatrix}}_{\dot{x}} = \underbrace{\begin{bmatrix} 1 & H_1(x_1) & H_1(x_2) & H_1(x_3) & H_1(x_1)H_1(x_2) & H_2(x_1) & H_1(x_1)H_1(x_3) & \dots & H_2(x_3) \end{bmatrix}}_{\phi(x)} \underbrace{\begin{bmatrix} \beta^1 \\ \beta^2 \\ \beta^3 \end{bmatrix}}_{\beta} + \varepsilon$$