lunedì 8 giugno 2020 18:04

$$\begin{cases} \dot{x} = \dot{y}(x, v) & \dot{y}(x_{c}, v_{e}) = 0 \\ \dot{y} = h(x, v) & h(x_{e}, v_{e}) \neq 0 \end{cases}$$

for small varioties of x and u

 $= \lambda \times = \frac{1}{2} \left(x = xe \right) + \frac{1}{2} \left(x - xe \right) + \frac{1}{2} \left(x$

Si 2 Di (xe,ve)

Nx n

Nx p

(28)

(28)

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SAR = ADX + BDU Dy = CDX + DDU

Used to freeze a NL model.

The solution of the LTM gives the approximation of the Voltera Kernels.

$$A = \frac{\partial g}{\partial x}\Big|_{xe} = \frac{1}{3}g(xe)$$
 $B = g(xe)$

$$C = \frac{\partial h}{\partial x}|_{xe} = \int_{e} (xe) \quad b_{e}h(xe)$$

The solution of the approximated model coincides with the NL's one

We consider the point of the origin xe=> because only equilibrium con be shifted to the origin with $\widehat{\chi} = x - xe$