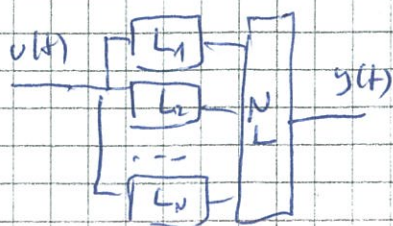


(4) ANY VOLTERA SYSTEM CAN BE APPROXIMATED BY

(6)(4)

PARALLEL LP/NL STRUCTURE

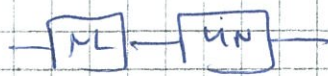


(5) WELL DEVELOPED FD REPRESENTATION

(6) MANY PRACTICALLY IMPORTANT NL BLOCK MODELS



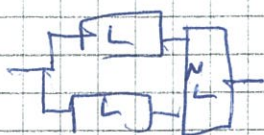
WIENER-SYSTEM



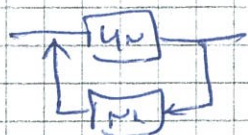
HAMMERSTEIN SYSTEM



WIENER-HAMMERSTEIN SYSTEM



PARALLEL WIENER SYSTEM



NL FB SYSTEM

ETC.

(7) STRAIGHTFORWARD EXTENSION TO MIMO SYSTEMS

(8) POSSIBILITY TO INCLUDE PHYSICAL A PRIOR INFORMATION

(9) UNIQUE STEADY STATE AND DISPO PROPERTY

(SAME PERIOD IN SAME PERIOD OUT)

INPUT SIGNALS

(GAUSSIAN OK!
PERIODIC OK!

APPROXIMATED (ASYMPTOTICALLY) GAUSSIAN, YET PERIODIC

$$u(t) = \sum_{k=1}^N \hat{U}_k \cos(2\pi f_k t + \phi_k)$$

$$= \sum_{\substack{k=-N/2 \\ \neq 0}}^{N/2} \left(\hat{U}_k e^{j\phi_k} \right) e^{j2\pi f_k t}$$