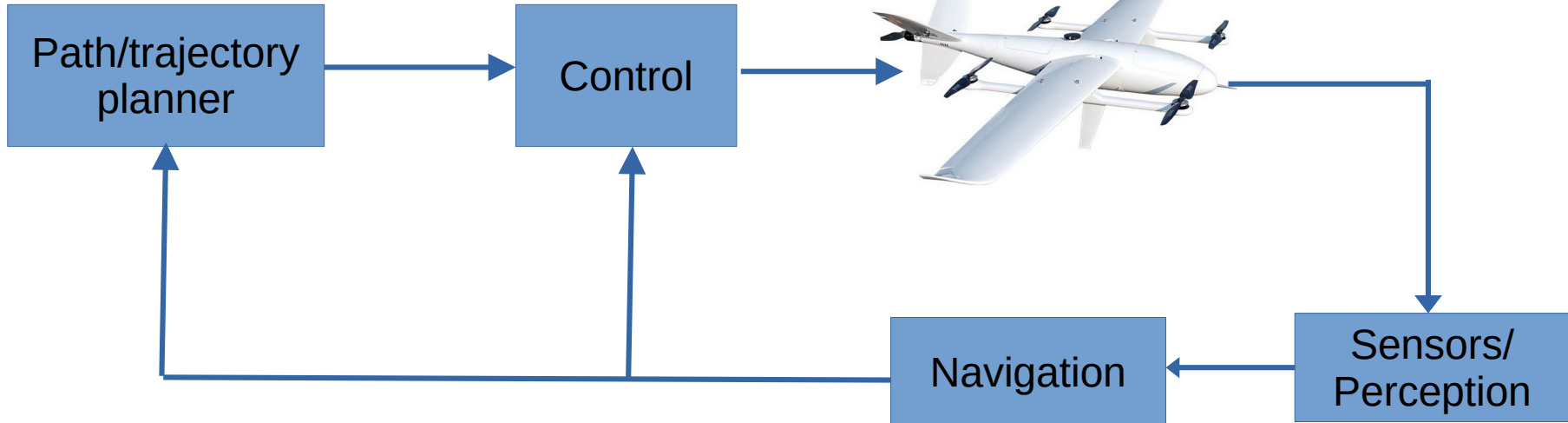**How to identify and attract your potential lover with System identification ?**

How they behave ?

- linear or nonlinear
- deterministic or stochastic

Path/trajectory planner → Control → [aircraft] → Sensors/Perception → Navigation → (feedback to Control and Path/trajectory planner)

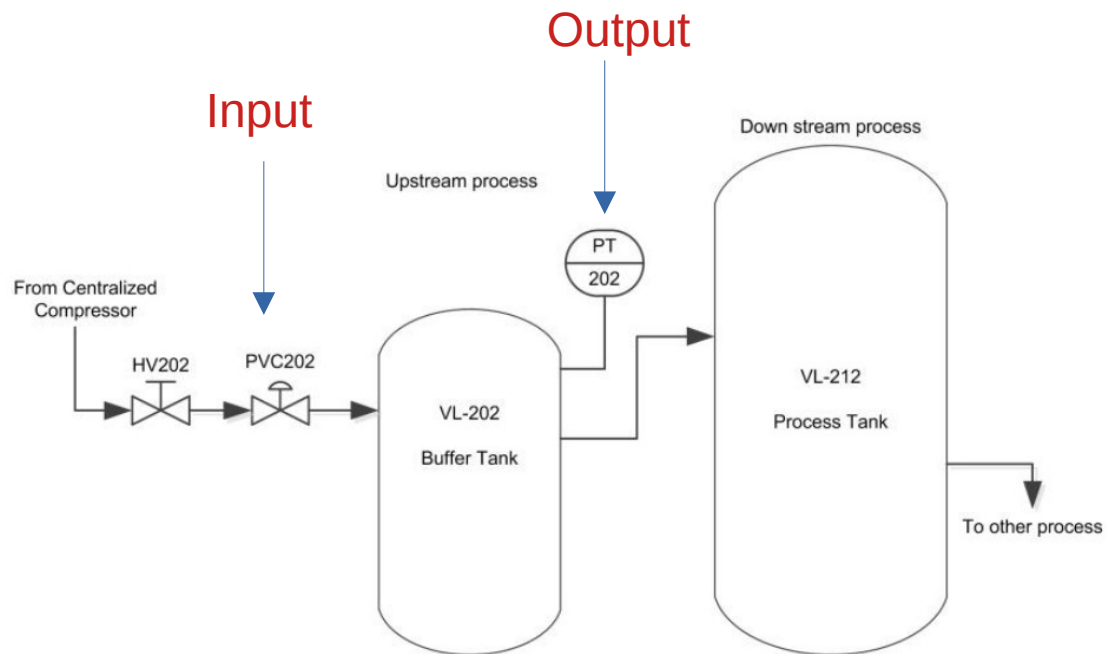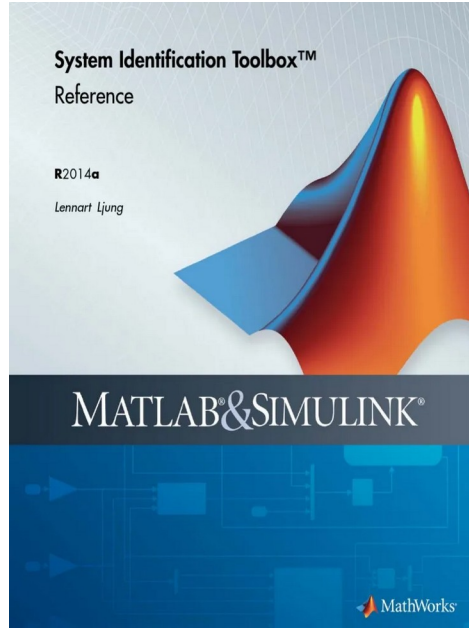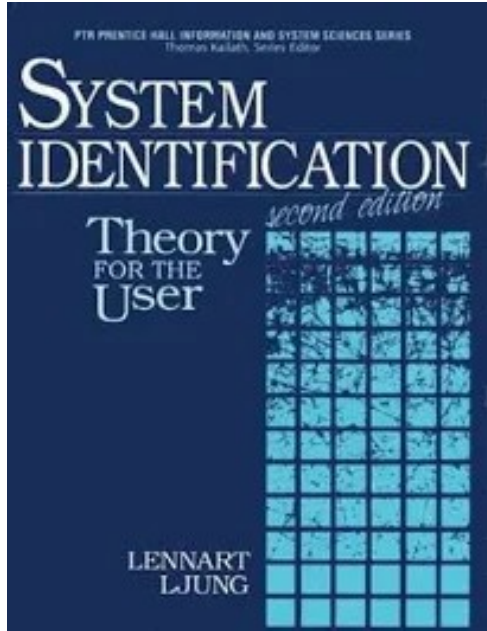# UNIVERSITY OF TECHNOLOGY PETRONAS

UTP campus and EE department, 2013

Figure 2: Gaseous Pilot Plant: Snapshot (Left), P&ID Diagram (Right)

Lennart Ljung

Professor of Automatic Control, Linköping University, Sweden
Verified email at isy.liu.se - Homepage

System Identification   Estimation   Adaptive Control   Signal Processing

TITLE	CITED BY	YEAR
System identification L Ljung Signal analysis and prediction, 163-173	38530	1998

✉ FOLLOW

System identification toolbox (Matlab)

$$\dot{x} = Ax + Bu$$
$$y = Cx + Du$$

Input

Output

Plant Input PVC202

Plant Output PT202

Plant Output PT202
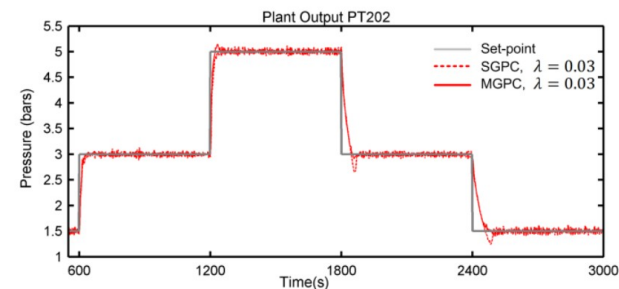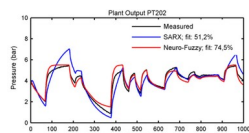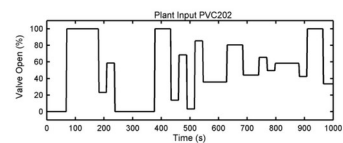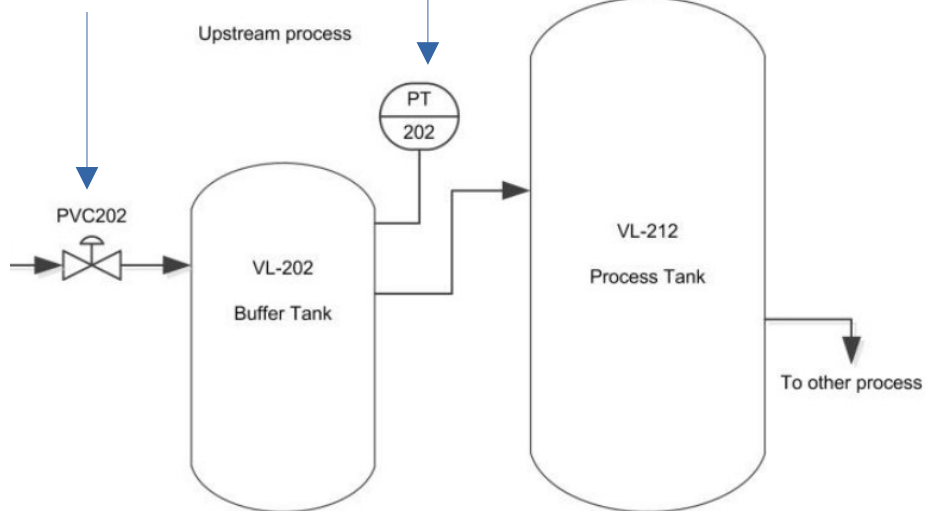
MPC controller

Upstream process

Down stream process

Upstream process

Down stream process

PVC202

VL-202
Buffer Tank

PT 202

VL-212
Process Tank

To other process

PVC202

VL-202
Buffer Tank

PT 202

VL-212
Process Tank

To other process
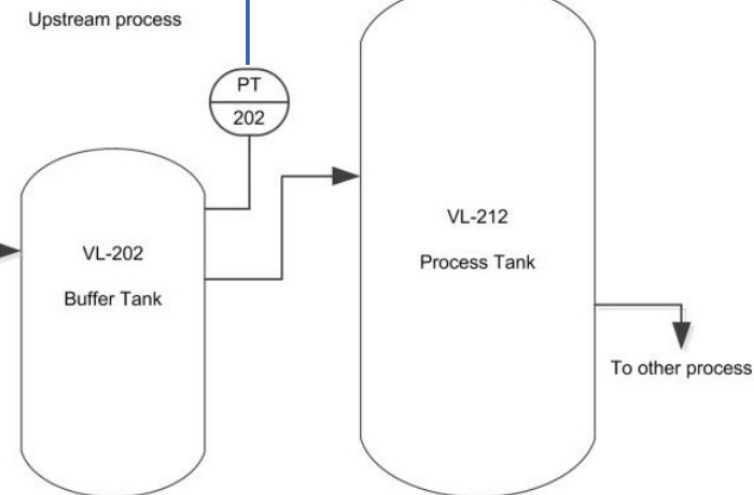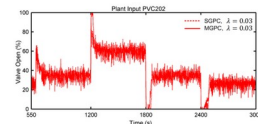
What is the key of success:

Good MPC controller <= good model <= good data for system identification

How to get rich/valuable data ?