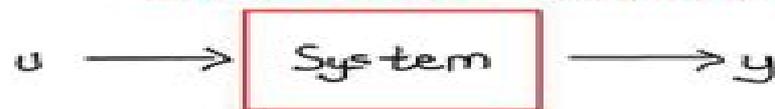


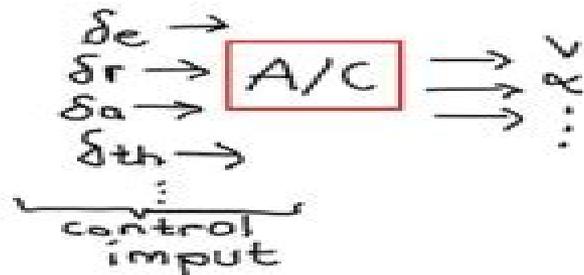
SYSTEM DYNAMIC

*



There is a cause and effect relation between u and y .
If u is under our control (we can change it as we wish) then it is called a control input. Some systems have inputs that cannot control, such inputs are called disturbance input.

ex:



Atmospheric conditions effect the motion of an A/C, so they are inputs. However a pilot has no control over them, so they are disturbance inputs.

Classification of Systems

Static vs. Dynamic Systems

A system is said to be static if its output depends upon the present input only. In other words, current output of the system does not depend on previously applied inputs. Static systems are also called memoryless systems. A system is said to be dynamic if its present output depends on present and past input values.

Dynamics Of Physical Circuits And Systems

Mark Steyvers



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