

EIPC (NEE-403)

Unit-4

Process Control

Control System

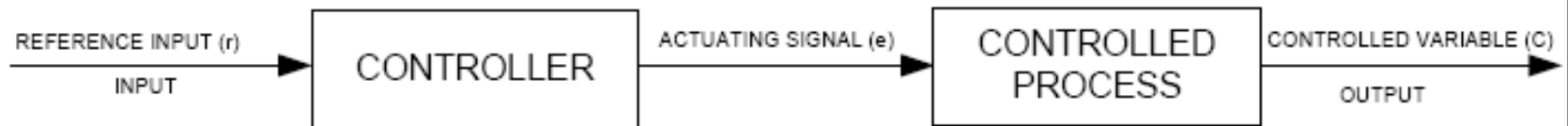
Basic Control System- Block Diagram



Classification of Control System:

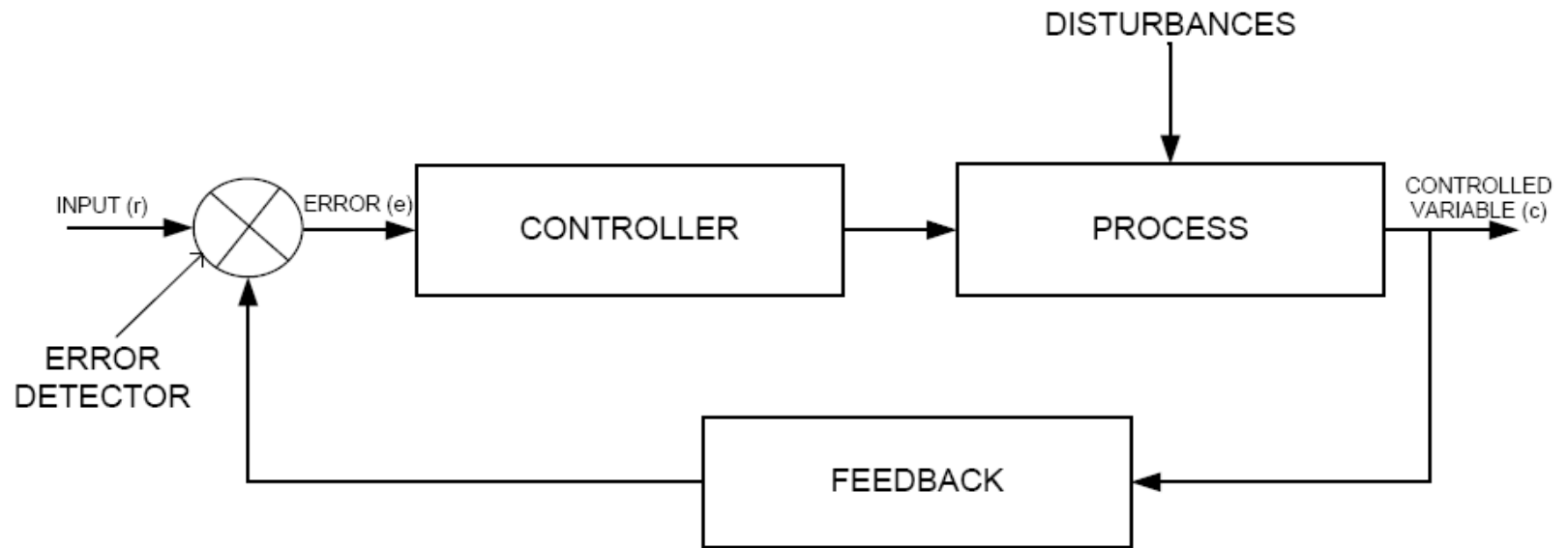
- Open Loop Control System:
- Closed Loop Control System:

Open Loop Control System: Control Action is independent of the Output

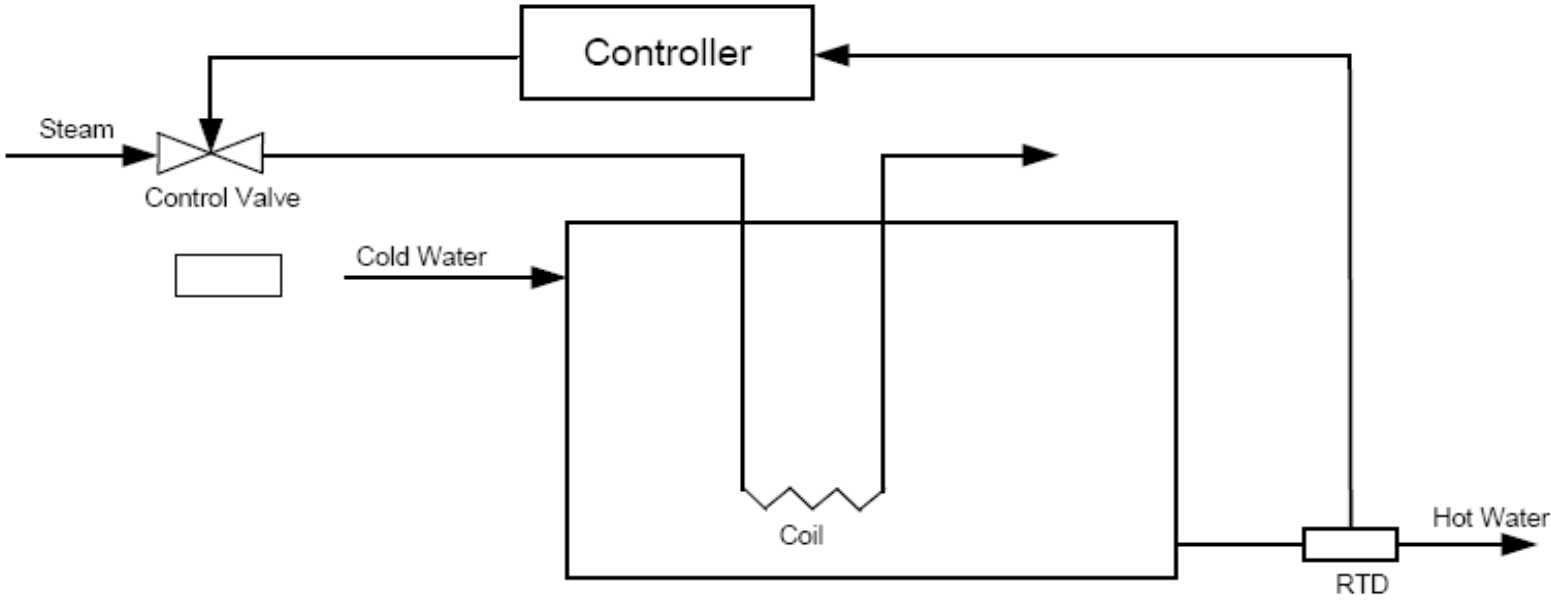


Closed Loop Control System: Control Action is related to

the Output



Closed Loop Control System



Important Characteristics of Process Control Systems

- 1) Focus of the engineers must be on the process. (Pc)
- 2) The dynamic behavior of the individual units and the process as a whole is to be understood.
- 3) It is always best to utilize the simplest control system that will achieve the desired objectives
- 4) The design of a process fundamentally determines how it will respond dynamically and how it can be controlled.

Thank You