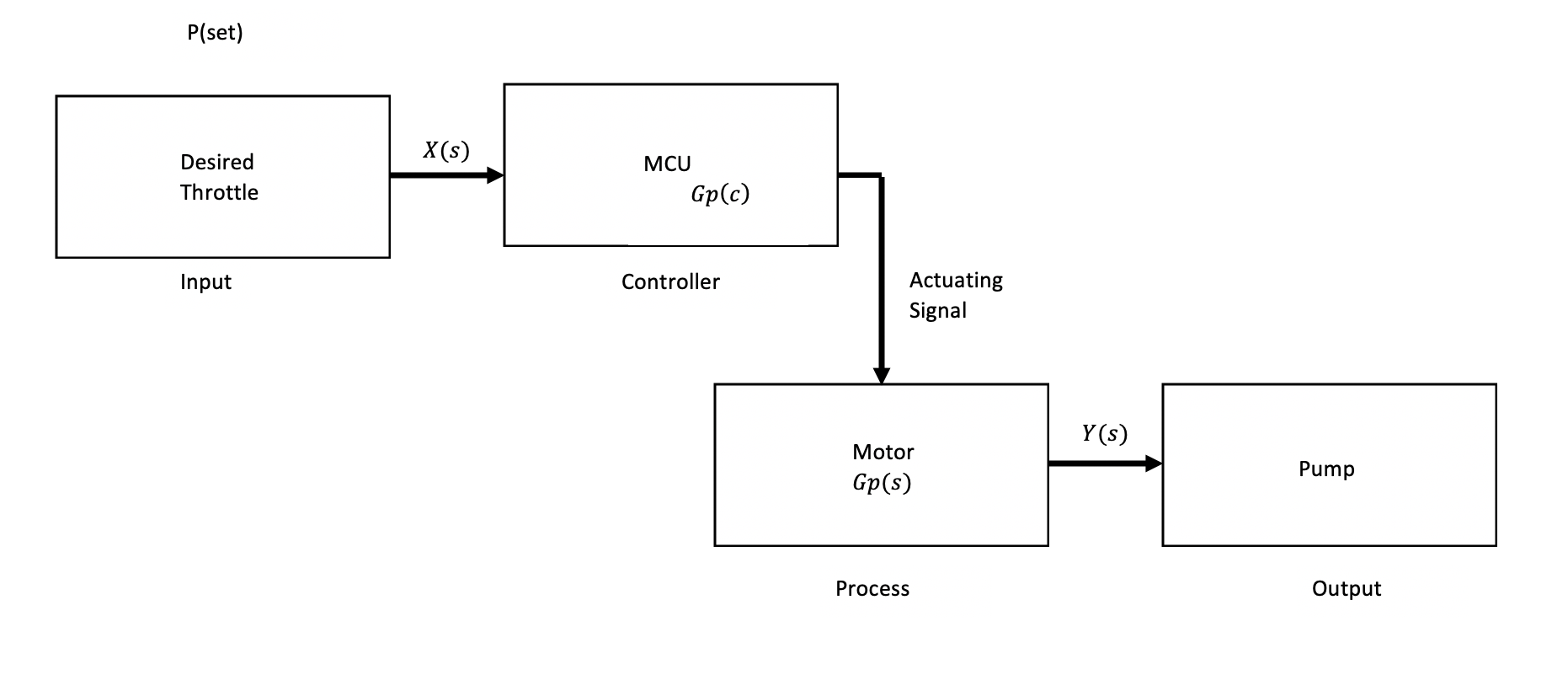
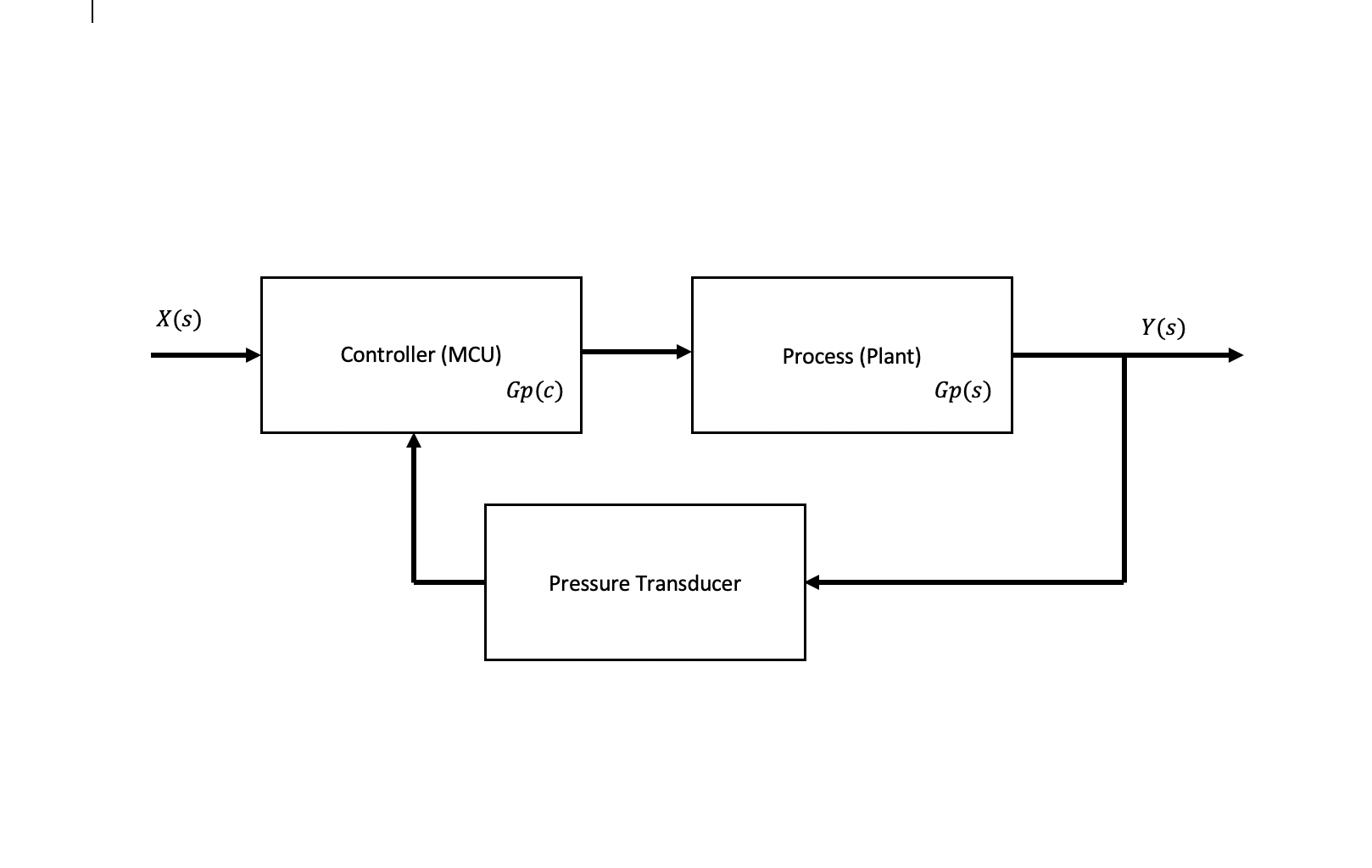
**Determination of Valve Control**

The LRE can be throttled by controlling the propellant combustion rate (usually measured in kg/s or lb/s). By changing the propellant valves open margin this causes a reduction in the mass flow going into the main combustion chamber.

Valve Control of the system can be carried out in two ways. A closed loop feedback control system or an open loop non-feedback control system. Below are the descriptions of both systems characteristics with relevance to valve control.

Open Loop Non-Feedback:

Closed Loop Feedback:

These two systems can be used quite successfully independently, although a reliable direct approach will prove more favourable. As a result of differential pressure into the system as shown: